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MECH - 17B91A0358

Hindustan Shipyard Ltd.
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Ref: T&D/56/19 Date: 23.05.2019

CERTIFICATE

This is to certify that Mr. / Ms. **DEVU PRAVEEN KUMAR** (photograph is affixed below) is son / daughter of Sri DEVU VENKATESH Studying B.Tech II year **MECHANICAL ENGINEERING** in **SRKR ENGINEERING COLLEGE BHIMAVARAM** has undergone Industrial Training in **QUALITY CONTROL and SHIP BUILDING DIVISION** from **06.05.2019 To 23.05.2019**. His / Her conduct during the above period was found to be GOOD.

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MECH - 35?

Hindustan Shipyard Ltd. [illegible]

[illegible] हिन्दुस्तान शिपयार्ड लिमिटेड [illegible]

Ref: [illegible] Date: [illegible]

CERTIFICATE

This is to certify that Mr. / Ms. **DANDU SUMANTH VARMA** (photograph is affixed below) is son / daughter of DANDU SUDHAKARA KRISHNAM RAJU. Studying B.Tech II year **MECHANICAL ENGINEERING** in **SRKR ENGINEERING COLLEGE** BHIMAVARAM, has undergone Industrial Training in **QUALITY CONTROL and SHIP BUILDING DIVISION** from **06.05.2019 To 23.05.2019**. His / Her conduct during the above period was found to be **GOOD**.

HINDUSTAN SHIPYARD LTD. TRAINING & DEVELOPMENT VISAKHAPATNAM 530005

कृते हिन्दुस्तान शिपयार्ड लिमिटेड
For Hindustan Shipyard Ltd

[signature]

कृष्णा मोहन / K. KRISHNA MOHAN
प्रबंधक (प्रशिक्षण एवं विकास)
Manager (Training & Development)

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MECH - 357

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गांधीग्राम
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(आई.एस.ओ. - 9001:2008 कंपनी)

Ref T&D/102/19

Date 23.05.2019

CERTIFICATE

This is to certify that Mr. / Ms. **NABBA MANEESH** (photograph is affixed below) is son / daughter of NABBA VENKATA RAMANA, Studying B. Tech II year **MECHANICAL ENGINEERING** in **SRKR ENGINEERING COLLEGE BHIMAVARAM**, has undergone Industrial Training in **ENGINEERING DEPARTMENT** from **06.05.2019** To **23.05.2019**. His / Her conduct during the above period was found to be **GOOD**.

कृते हिन्दुस्तान शिपयार्ड लिमिटेड
For Hindustan Shipyard Ltd

के. कृष्ण मोहन / K. KRISHNA MOHAN
प्रबंधक (प्रशिक्षण एव विकास)
Manager (Training & Development)

ISO 9001 : 2008 APPROVED BY IRQS

Registered Office : Gandhigram, Gandhigram Post Office, Visakhapatnam - 530 005. (A. P.)
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MECH - 3R4

Hindustan Shipyard Ltd.

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हिन्दुस्तान शिपयार्ड लिमिटेड
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गांधीग्राम
विशाखापत्तनम 530 005 (भारत)
(आई एस ओ 9001:2008 कंपनी)

Ref T&D/92/19

Date 23.05.2019

CERTIFICATE

This is to certify that Mr / Ms. **TADISETTY TEJA** (photograph is affixed below) is son / daughter of TADISETTY SRINIVASA RAO. Studying B Tech II year **MECHANICAL ENGINEERING** in **SRKR ENGINEERING COLLEGE BHIMAVARAM**, has undergone Industrial Training in **ENGINEERING DEPARTMENT** from **06.05.2019 To 23.05.2019**

His / Her conduct during the above period was found to be **GOOD.**

HINDUSTAN SHIPYARD LTD. ENGINEERING DEPARTMENT

For Hindustan Shipyard Ltd.

कृते हिन्दुस्तान शिपयार्ड लिमिटेड

[illegible]
प्रबंधक (प्रशिक्षण एवं विकास)

Registered Office : Gandhigram, Gandhigram Post Office, Visakhapatnam - 530 005 (A. P.)
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MECH- 369

Hindustan Shipyard Ltd.

हिन्दुस्तान शिपयार्ड लिमिटेड

Ref: T&D/97/19

Date: 23.05.2019

CERTIFICATE

This is to certify that Mr. / Ms. **GADI SAI SATISH** (photograph is affixed below) is son / daughter of Sri GADI SURYANARAYANA Studying B Tech II year **MECHANICAL ENGINEERING** in **SRKR ENGINEERING COLLEGE** BHIMAVARAM, has undergone Industrial Training in **QUALITY CONTROL and SHIP BUILDING DIVISION** from **06.05.2019 To 23.05.2019**. His / Her conduct during the above period was found to be GOOD.

SHIPYARD LTD

VISAKHAPATNAM 530005

For Hindustan Shipyard Ltd

के. कृष्ण मोहन / K. KRISHNA MOHAN

प्रबंधक (प्रशिक्षण एवं विकास) / Manager (Training & Development)

MECH 351

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विशाखपट्टनम - 530 005 (भारत)
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Ref: T&D/101/19

Date: 23.05.2019

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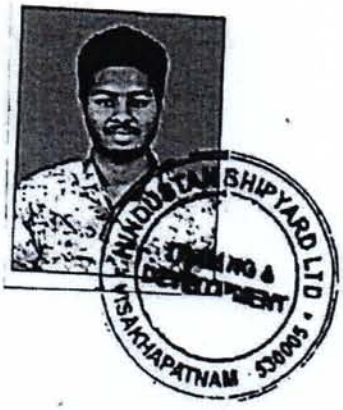
This is to certify that Mr. / Ms. **DAGGU VISWATEJA** (photograph is affixed below) is son / daughter of Sri DAGGU DURGA GOPI SRINIVAS Studying B.Tech II year **MECHANICAL ENGINEERING** in **SRKR ENGINEERING COLLEGE BHIMAVARAM,** has undergone **Industrial Training** in **QUALITY CONTROL and SHIP BUILDING DIVISION** from **06.05.2019 To 23.05.2019.** His / Her conduct during the above period was found to be GOOD.



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हिन्दुस्तान शिपयार्ड लिमिटेड
For Hindustan Shipyard Ltd

के कृष्ण मोहन / K. KRISHNA MOHAN
प्रबंधक (प्रशिक्षण एवं विकास)
Manager (Training & Development)

MECH -303

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गांधीग्राम
विशाखपट्टनम - 530 005 (भारत)
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Ref: T&D/90/19

Date: 23.05.2019

CERTIFICATE

This is to certify that Mr. / Ms. **ADARI HARSHAD** (photograph is affixed below) is son / daughter of ADARI KRISHNA APPALA NAIDU, Studying B.Tech II year **MECHANICAL ENGINEERING** in **SRKR ENGINEERING COLLEGE BHIMAVARAM,** has undergone **Industrial Training** in **ENGINEERING DEPARTMENT** from **06.05.2019 To 23.05.2019**. His / Her conduct during the above period was found to be **GOOD.**

HINDUSTAN SHIPYARD LTD. VISAKHAPATNAM 530005

For हिन्दुस्तान शिपयार्ड लिमिटेड
For Hindustan Shipyard Ltd.

P. कृष्ण मोहन / P. KRISHNA MOHAN
प्रबंधक (प्रशिक्षण एवं लेखा) / Manager (Training & Accts)

MECH - 17B91A03 7 1

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हिन्दुस्तान शिपयार्ड लिमिटेड
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गांधीग्राम
विशाखापत्तनम - 530 005 (भारत)
(आई.एस.ओ. - 9001:2008 कंपनी)

Ref: T&D/103/19

Date: 23.05.2019

CERTIFICATE

This is to certify that Mr. / Ms. **GANDI MOHANDEV** (photograph is affixed below) is son / daughter of GANDI GANESHU, Studying B.Tech II year **MECHANICAL ENGINEERING** in **SRKR ENGINEERING COLLEGE** BHIMAVARAM, has undergone Industrial Training in **ENGINEERING DEPARTMENT** from **06.05.2019 To 23.05.2019.**

His / Her conduct during the above period was found to be **GOOD.**

H.N SHIPYARD LTD. 530005

For हिन्दुस्तान शिपयार्ड लिमिटेड
For Hindustan Shipyard Ltd

के कृष्ण मोहन / K. KRISHNA MOHAN
प्रबंधक (प्रशिक्षण एवं विकास)
Manager (Training & Development)

MECH - 160106050

राष्ट्रीय इस्पात निगम लिमिटेड Rashtriya Ispat Nigam Limited
विशाखपट्टणम इस्पात संयंत्र Visakhapatnam Steel Plant
तकनीकी प्रशिक्षण केन्द्र Technical Training Institute
विशाखपट्टणम Visakhapatnam-530031

No. 05740
0005740

प्रमाण पत्र CERTIFICATE

S1301TN0213B-0175

प्रमाणित किया जाता है कि श्री/*This is to certify that*

Mr./Ms. BUSAM NAGA VINEETH *a student of*

(वर्ष/पाठ्यक्रम/शाखा *Year/Course/Branch*) III/B.TECH/MECHANICAL

विद्यार्थी ने *from* A. K. R. R. ENGINEERING COLLEGE, BHIMAVARAM से

has undergone INTERNSHIP प्रशिक्षण *training* विशाखपट्टणम इस्पात संयंत्र

के *at Visakhapatnam Steel Plant in* ENGINEERING SHOPS & FOUNDRY

विभागों में *depts. from* दि 20/05/2019 से *to* 01/06/2019 तक प्राप्त किया।

परियोजना शीर्षक *The project title is* .....

है।

प्रशिक्षण अवधि में उनका आचरण *His/Her conduct during the period of training is*

GOOD है।

स्थल/Place : Visakhapatnam

दि/Date 01/06/2019

प्रशिक्षण समन्वयक के हस्ताक्षर मोहर के साथ।
Signature of Training Co-Ordinator with Seal

श्री. प्रभाकर राव-J. PRABHAKARA RAO
ONLY
Visakhapatnam-530 031

(1)

16010605

राष्ट्रीय इस्पात निगम लिमिटेड Rashtriya Ispat Nigam Limited
विशाखपट्टणम इस्पात संयंत्र Visakhapatnam Steel Plant
तकनीकी प्रशिक्षण केन्द्र Technical Training Institute
विशाखपट्टणम Visakhapatnam-530031

No. 05740 0005740

प्रमाण पत्र CERTIFICATE

SI301TN0213B-0175

प्रमाणित किया जाता है कि श्री/*This is to certify that*

Mr./Ms. BUSAM NAGA VINEETH *a student of*

(वर्ष/पाठ्यक्रम/शाखा *Year/Course/Branch*) III/B.TECH/MECHANICAL

विद्यार्थी ने *from* [redacted] से

has undergone INTERNSHIP प्रशिक्षण *training* विशाखपट्टणम इस्पात संयंत्र

के *at Visakhapatnam Steel Plant in* ENGINEERING SHOPS & FOUNDRY

विभागों में *depts. from* दि 20/05/2015 से *to* 01/06/2015 तक प्राप्त किया।

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.....हैं।

प्रशिक्षण अवधि में उनका आचरण *His/Her conduct during the period of training is*

GOOD हैं।

स्थल/Place : Visakhapatnam

दि/Date 01/06/2015

प्रशिक्षण समन्वयक के हस्ताक्षर मोहर के साथ।
Signature of Training Co-Ordinator with Seal

श्री. प्रभाकर राव-J. PRABHAKARA RAO
[redacted]

राष्ट्रीय इस्पात निगम लिमिटेड Rashtriya Ispat Nigam Limited
विशाखपट्टणम इस्पात संयंत्र Visakhapatnam Steel Plant
तकनीकी प्रशिक्षण केन्द्र Technical Training Institute
विशाखपट्टणम Visakhapatnam-530031

No. 05743

प्रमाण पत्र CERTIFICATE

प्रमाणित किया जाता है कि श्री/*This is to certify that*

Mr./Ms. P D V S SAI MANIKANTA *a student of*

वर्ष/पाठ्यक्रम/शाखा *Year/Course/Branch* III/B TECH/MECHANICAL

विद्यार्थी ने *from* K K L ENGINEERING COLLEGE, BHIMAVARAM से

has undergone INTERNSHIP प्रशिक्षण *training* विशाखपट्टणम इस्पात संयंत्र

के *at Visakhapatnam Steel Plant in* ENGINEERING SHOPS & FOUNDRY

विभागों में *depts. from* दि 20/05/2019 से *to* 01/06/2019 तक प्राप्त किया।

परियोजना शीर्षक *The project title is* .....

है।

प्रशिक्षण अवधि में उनका आचरण *His/Her conduct during the period of training is* GOOD है।

स्थल/Place : Visakhapatnam

दि/Date 01/06/2019

प्रशिक्षण समन्वयक के हस्ताक्षर मोहर के साथा।
Signature of Training Co Ordinator with Seal

P. PRABHAKAR RAO

160106051

राष्ट्रीय इस्पात निगम लिमिटेड Rashtriya Ispat Nigam Limited
विशाखपट्टणम इस्पात संयंत्र Visakhapatnam Steel Plant
तकनीकी प्रशिक्षण केन्द्र Technical Training Institute
विशाखपट्टणम Visakhapatnam-530031

VIZAG STEEL Pride of Steel A Navratna Company

No. 05744
0005744

प्रमाण पत्र CERTIFICATE

S1901TNO1149-0177

प्रामाणित किया जाता है कि श्री/*This is to certify that*

Mr./Ms. CH SAI LAKSHMAN *a student of*

(वर्ष/पाठ्यक्रम/शाखा *Year/Course/Branch*/ III/B TECH/MECHANICAL

विध्यार्थी ने *from* S. R. K. R. ENGINEERING COLLEGE, BHIMAVARAM से

has undergone INTERNSHIP प्रशिक्षण *training* विशाखपट्टणम इस्पात संयंत्र

के *at Visakhapatnam Steel Plant in* ENGINEERING SHOPS & FOUNDRY

विभागों में *depts. from* दि 20/05/2019 से *to* 01/06/2019 तक प्राप्त किया।

परियोजना शीर्षक *The project title is* **********

है।

प्रशिक्षण अवधि में उनका आचरण *His/Her conduct during the period of training is*

GOOD है।

स्थल/Place : Visakhapatnam

दि/Date 01/06/2019

प्रक्षिण समन्वयक के हस्ताक्षर मोहर के साथ।
Signature of Training Co-Ordinator with Seal

जे. प्रभाकर राव/J. PRABHAKARA RAO
प्रबंधक (प्रशि.)/Manager (Trg.)
आर.एस.पी./R.S.P.
विशाखपट्टणम-530 031

G.S.ALLOY CASTINGS LIMITED

An ISO 9001 : 2008 Company

OFFICE & WORKS : PAYAKAPURAM, VIJAYAWADA - 520 015.
Phones : (0866) 2400035, 2400610 Fax : (91) (0866) 2400816
E-mail : vjwgsacltd@sanchamet.in

May 24, 2019

CERTIFICATE

This is to certify that Ms. THOTA LAKSHMI MOUNIKA (Reg. No. 17B91A03S4) student of 2ND Year B.Tech. (Mechanical) in S.R.K.R. ENGINEERING COLLEGE, BHIMAVARAM, has successfully completed a Internship "Foundry Technology" in our organization from 9th May 2019 to 23rd May 2019 at G.S. Alloy Castings Ltd., Vijayawada. During the period of her training, her conduct and character were Satisfactory.

for G S Alloy Castings Limited.

(G.L. SUMANTH KUMAR)
Manager – H.R.

e Manufacture : Cast Steel, Alloy Steel, Mn Steel, Stainless Steel, Heat Resistant Steel, Nihard and Cast Iron Castings.
A.P.G.S.T.No. : VJA/DVN/II/06/3/1319 & C.S.T. No. VJA/DVN/II/06/3/1103, Dt. 1-8-88
o. : 28150209968
RC No. : AAACG 8412 DXM 001

Regd. No. : Y1905E1E2W00952

ISO 9001:2015 Certified by IRQS

NABCB QM 006

ANDHRA PRADESH POWER GENERATION CORPORATION LIMITED

APGENCO

TRAINING INSTITUTE

IBRAHIMPATNAM - 521 456, KRISHNA DISTRICT.

CERTIFICATE

This is to Certify that Sri / Smt. / Kum. NALLI BHANU PRASAD MECH

Son / Wife / Daughter of Sri. N. SITARAMUDU student of

SRKR ENGINEERING COLLEGE, BHIMAVARAM has participated in Two Weeks

Industrial Training / Internship / Mini Project on Thermal Power Plant Familiarisation

for Engineering Students conducted at APGENCO Training Institute.

from 27-05-2019 to 08-06-2019

28/6/19

CHIEF ENGINEER
TRAINING INSTITUTE &
Dr. NTTPS Stage - V Construction
APGENCO

160106072

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
हेवी प्लेट्स एण्ड वेसल्स प्लांट, विशाखापट्टणम-530 012, आं प्र., भारत
Bharat Heavy Electricals Limited
Heavy Plates & Vessels Plant, Visakhapatnam-530 012, A.P., India

Ref: HRDC/B/07/2019

CERT.NO:4626/10.05.2019

Date: 27 /05/2019

CERTIFICATE

This is to certify that Mr. GANDROTHU YESU RAJU S/o Shri GANDROTHU SATYANARAYANA studying B.Tech (Mech) in SAGI RAMA KRISHNAM RAJU ENGINEERING COLLEGE (A), BHIMAVARAM. Has done INTERNSHIP in BHEL-HPVP, Visakhapatnam from 10.05.2019 to 24.05.2019.

During the above period his CONDUCT & CHARACTER were found Very Good and we wish him a bright future.

(G Kuru Murthy)
Dy. General Manager (HRDC)
उप महा प्रबंधक (प्रशिक्षण)
DY GENERAL MANAGER (TRG.)
भा.हे.इ.लि.-एच.पी.वी.पी./BHEL-HPVP
विशाखापट्टणम/VISAKHAPATNAM-530 012

Tel : 0891-6681280, Fax : 6681700, Website : www.bhel.com, e-mail : www.bhelviz.co.in

17B91A03K4

G.S. ALLOY CASTINGS LIMITED

An ISO 9001 - 2015 Company

Office [illegible]
[illegible] 520 015.
[illegible]
[illegible]
[illegible]@gmail.com
[illegible]@yahoo.com

GSACL/SR/REC/2019-20

June 12, 2019

To

The In-charge
Training & Placements
S.R.K.R. Engineering College
Bhimavaram.

Dear Sir,

Sub: Completion of Internship of your B.Tech 2nd Year Student – Reg.
Ref: Your letter dated 11th May 2019.

This has reference to the above cited letter, the following B.Tech 2nd Year Student of your college was completed his internship in our organisation from 20th May 2019 to 06th June 2019.

S.NO.	NAME OF THE STUDENT	REGISTERED NO.
1	NIDADAVOLU SATYANAND KUMAR	17B91A03K4

Thanking you,

Yours faithfully
For G S ALLOY CASTINGS LIMITED

G. L SUMANTH KUMAR
MANAGER – H.R.

G.S. ALLOY CASTINGS LIMITED

An ISO 9001 : 2015 Company

GSACL/SRKREC/2019-20

June 12, 2019

To

The In-charge
Training & Placements
S R K R Engineering College
Bhimavaram,

Dear Sir,

Sub: Completion of Internship of your B.Tech 2nd Year Student – Reg.
Ref: Your letter dated 11th May 2019.

This has reference to the above cited letter, the following B.Tech 2nd Year Student of your college was completed his internship in our organisation from 20th May 2019 to 06th June 2019.

S.NO.	NAME OF THE STUDENT	REGISTERED NO.
1	GOBERU VENKATA SAI KOKUL	17B91A0380

Thanking you,

Yours faithfully
For G S ALLOY CASTINGS LIMITED

G. L SUMANTH KUMAR
MANAGER – H.R.

We Manufacture : Cast Steel, Alloy Steel, Stainless Steel, Heat Resistant Steel, Nihard and Cast Iron Castings.
Works Units I & II : Surampalli Village

MECH -17B91A03I4

भारत हैवी इलेक्ट्रिकल्स लिमिटेड
मानवसंसाधन विकास केंद्र

BHARAT HEAVY ELECTRICALS LIMITED
Human Resource Development Centre

Ref No: [illegible] Date : [illegible]

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr./Ms./Mrs. M. Ravi Shankar

with college id no: 17B91A03I4

studying in CMR Engineering College

pursuing B.E./B.Tech/MBA in Mechanical

discipline had undergone project training from [illegible]

to 15/04/2019. The title of the project as per our records is

Study of Industrial Turbine

Project training in-charge

A. NAGESWARA RAO
Asst. Engineer-SOC
HRDC, BHEL, HYD-32

Andhra Pradesh
Gas Power Corporation Ltd.

Lr.No:GM/AE-Tech/F-52/D.No. 886 /19, Dt.04.06.2019

To
The In-Charge,
Training & Placement Cell,
S.R.K.R. Engg. College,
Bhimavaram-534204.

Sir,

Sub:- APGPCL – Vijjeswaram – Internship In GTPS - Completion Certificate-Reg.

Ref:- 1. Lr.No. GM/AE/Tech/F.52/D.No: 757/19, Dt: 10.05.2019
2. Lr.No. OMS/APGPCL/PM/D.No: 118/19, Dt: 01.06.2019

***

It is to inform that the following student of S.R.K.R. Engg. College have completed their Internship/Industrial Training In AP Gas Power Corporation Limited, Gas Turbo Power Station at VIJJESWARAM from 17.05.2019 to 31.05.2019 under the guidance of Sri Ch.N.Pulleswara Rao, DGM-Mechanical /OMS against the approval vide reference cited. During the Internship/Industrial Training period their performance and conduct is found satisfactory.

S.No.	Name	Roll No.	Branch
1	Pulidandi Venkanna	17B91A03M6	B.E /Mech

Thanking you,

Yours Faithfully,
For AP GAS POWER CORPORATION LIMITED

[M.CHITTI BABU]
General Manager
APGPCL,Vijjeswaram.

Gas Turbo Power Station, Vijjeswaram–534 350, W.G.Dist., A.P.
Phone: 08813-285508, Fax: 08813-285408, E-mail: gm_apgpcl@yahoo.com
H.O.: # 201,2nd Floor, My Home Sarovar Plaza, Secretariat Road, Hyderabad- 500 063.
Phone: 040-2323 3387 / 2323 6591, Fax: 040 – 2323 3693, 2323 0878

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
रामचंद्रापुरम, हैदराबाद
मानव संसाधन विकास केंद्र

BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM, HYDERABAD-502032
Human Resource Development Centre

Ref No: 19ENGG1583 Date : 30/05/2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr./Ms./Mrs. BELLAMKONDA PAVAN NAGA SAI KUMAR with college id no: 160106034 studying in S.R.K.R ENGINEERING COLLEGE pursuing B.E/B.Tech/MBA in MECHANICAL discipline had undergone project training from 16/05/2019 to 30/05/2019. The title of the project as per our records is STUDY OF GAS TURBINE COMPONENTS

P. MAHIPAL REDDY
Dy. Manager / HRDC
BHEL, HYD-502 032
Project training in-charge

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
रामचंद्रापुरम, हैदराबाद
मानव संसाधन विकास केंद्र

BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM, HYDERABAD-502032
Human Resource Development Centre

Ref No: 19ENGG1583 **Date :** 30/05/2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr./Ms./Mrs. APPARI. BHARADWAJ with college id no: 160106020 studying in SRKR ENGINEERING COLLEGE pursuing B.E/B.Tech/MBA in MECHANICAL ENGINEERING discipline had undergone project training from 16/05/2019 to 30/05/2019. The title of the project as per our records is STUDY OF GAS TURBINE COMPONENTS

P. MAHIPAL REDDY
Dy. Manager / HRD
BHEL, HYD-502 032
Project training in-charge

भारत हेवी इलेक्ट्रिकल्स लिमिटेड
रामचंद्रापुरम, हैदराबाद
मानव संसाधन विकास केंद्र

BHARAT HEAVY ELECTRICALS LIMITED
RAMACHANDRAPURAM, HYDERABAD-502032
Human Resource Development Centre

Ref No: 19ENGG1584

Date : 01-06-2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr./Ms./Mrs. ADABALA JYOTHSNA PRIYANKA with college id no: 160106002 studying in S.R.K.R ENGINEERING COLLEGE pursuing B.E/B.Tech/MBA in MECHANICAL discipline had undergone project training from 16-05-2019 to 30-05-2019. The title of the project as per our records is STUDY OF STEAM TURBINES

K N SANDEEP
Project training in-charge
BHEL HYD-32

17B91A1241

Sr.No.SM-19-110

BENNETT UNIVERSITY

SUMMER INTERNSHIP
ON
ARTIFICIAL INTELLIGENCE AND DEEP LEARNING

CERTIFICATE OF COMPLETION

This is to certify that **Harsha Vardhan Garlapati**

from **S.R.K.R. Engineering College, Bhimavaram**

has successfully completed **four** weeks internship.

Duration **27th May to 19th June** 2019

Venue : Bennett University, Greater Noida (U.P.) India

Deepak Garg

Dr. Deepak Garg
Head Computer Science Engineering

Madhushi Verma

Dr. Madhushi Verma
Internship Coordinator

CSE - 17B91A0526

BENNETT UNIVERSITY
A TIMES GROUP INITIATIVE

Sr.No. SM-19-129

LEADINGINDIA.AI

SUMMER INTERNSHIP
ON
ARTIFICIAL INTELLIGENCE AND DEEP LEARNING

CERTIFICATE OF COMPLETION

This is to certify that **Kotla Nikhil**

from **S.R.K.R. Engineering College, Bhimavaram**

has successfully completed **four** weeks internship.

Duration **27th May to 21st June** 2019

Venue : Bennett University, Greater Noida (U.P.) India

Deepak Garg

Dr. Deepak Garg
Head Computer Science Engineering

Madhushi Verma

Dr. Madhushi Verma
Internship Coordinator

JT - 160105060

Olcademy

CERTIFICATE

OF INTERNSHIP

This certificate is awarded to

Venkata Raviteja Gullapudi

in appreciation of your successful completion

of the internship for the position of **Web Development Intern** at Olcademy.

The internship was conducted between 30/04/19 to 30/09/19

Rahul.

RAHUL GUPTA
Technology Architect

AKHIL KHARBANDA
Associate Vice President

erification ID : ICML30DS30ISD10178
verify this certificate log on to www.olcademy.com/certificate or write to careers@olcademy.com

17B91A1220

— MY CLINIC —

September 1, 2019

From

The Branch Manager,
My Clinic (formerly Ando's Franchisee),
Vamsikrishna Nagar,
Bhimavaram – 534202

17B – A0, T5, 20

Ref: M. Vandhitha Charanya – Software Developer – Internship

To Whom It May Concern:

It is my pleasure to present this internship completion letter to M. Vandhitha Charanya, B.Tech(IT) student at SRKR Engineering College, Bhimavaram. She was referred as a very promising candidate along with two of her classmates, KNVS Madhuri and B. Deepika, by her Professor to complete our online billing system during 2nd year Summer. She spent 200+ hours of her time during and after Summer break on this project.

During her Summer break, Vandhitha worked with our staff to understand the requirements of our system, code and deploy on our local machines. Vandhitha worked with a 3-member team, in which she specifically developed front-end features using HTML, CSS, JS, JQuery and PHP. She also worked with backend database for storing and retrieving data. Final code is deployed using WAMP Server while forms are developed using PHP and data is stored into MySQL.

Vandhitha is an excellent team player with analytical and problem-solving skills. She is keen to learn the technologies as she worked on the project and build her coding and debugging skills.

I would definitely recommend Vandhitha for any placement opportunity as she would be a great team player and is eager to learn each day and build a career in Software Industry.

Truly,
Leela Rani Nandigam

For ANDO'S ELECTROLYSIS & OBESITY PVT. LTD.

7/9/19

Authorised Signatory

17B91A1275

— MY CLINIC —

September 1, 2019

From:

The Branch Manager,
My Clinic (formerly Anoo's Franchisee),
Vamsikrishna Nagar,
Bhimavaram – 534202

17B-A0,75,20

Ref: M. Vandhitha Charanya – Software Developer – Internship

To Whom It May Concern:

It is my pleasure to present this internship completion letter to M. Vandhitha Charanya, B.Tech(IT) student at SRKR Engineering College, Bhimavaram. She was referred as a very promising candidate along with two of her classmates, KNVS Madhuri and B. Deepika, by her Professor to complete our online billing system during 2nd year Summer. She spent 200+ hours of her time during and after Summer break on this project.

During her Summer break, Vandhitha worked with our staff to understand the requirements of our system, code and deploy on our local machines. Vandhitha worked with a 3-member team, in which she specifically developed front-end features using HTML, CSS, JS, JQuery and PHP. She also worked with backend database for storing and retrieving data. Final code is deployed using WAMP Server while forms are developed using PHP and data is stored into MySQL.

Vandhitha is an excellent team player with analytical and problem-solving skills. She is keen to learn the technologies as she worked on the project and build her coding and debugging skills.

I would definitely recommend Vandhitha for any placement opportunity as she would be a great team player and is eager to learn each day and build a career in Software Industry.

Truly,
Leela Rani Nandigam

For ANOO'S ELECTROLYSIS & OBESITY PVT. LTD.

7/9/19

Authorised Signatory

An ISO 9001:2015 Certified Company

+91 [illegible] info@myclinic.in [illegible]

#1-1-11, Ground Floor, Vijaya Plaza, Near Federal Bank Building,
Adavanthena, Vamsikrishna Nagar, Bhimavaram - 534202.

17B91A12A0

— MY CLINIC —

September 1, 2019

From

The Branch Manager,
My Clinic (formerly Anoo's Franchisee),
Vamsikrishna Nagar,
Bhimavaram – 534202

17B-A0,75,20

RE: M. Vandhitha Charanya – Software Developer – Internship

To Whom It May Concern:

It is my pleasure to present this internship completion letter to M. Vandhitha Charanya, B.Tech(IT) student at SRKR Engineering College, Bhimavaram. She was referred as a very promising candidate along with two of her classmates, KNVS Madhuri and B. Deepika, by her Professor to complete our online billing system during 2nd year Summer. She spent 200+ hours of her time during and after Summer break on this project.

During her Summer break, Vandhitha worked with our staff to understand the requirements of our system, code and deploy on our local machines. Vandhitha worked with a 3-member team, in which she specifically developed front-end features using HTML, CSS, JS, JQuery and PHP. She also worked with backend database for storing and retrieving data. Final code is deployed using WAMP Server while forms are developed using PHP and data is stored into MySQL.

Vandhitha is an excellent team player with analytical and problem-solving skills. She is keen to learn the technologies as she worked on the project and build her coding and debugging skills.

I would definitely recommend Vandhitha for any placement opportunity as she would be a great team player and is eager to learn each day and build a career in Software Industry.

Truly,
Leela Rani Nandigam

For ANOO'S ELECTROLYSIS & OBESITY PVT. LTD.

7/9/19

Authorised Signatory

40 YEARS IN NATION BUILDING

NCC

NCC/HO-HR/PROJ-TNG-2019-2020 Date: 4th July 2019

INTERNSHIP CERTIFICATE

This is to certify that Mr. Ch Vinay Kumar studying B Tech (Civil Engineering), in SRKR Engineering College – Bhimavaram, vide Registration No.160301007, successfully completed his internship with us at our MLA Quarter Project during the period from 22nd May 2019 to 4th June 2019.

KASP Rao

Consultant(HR)

NCC Limited HYDERABAD-500 081. NCC

40 YEARS IN NATION BUILDING

NCC

NCC/HO-HR/PROJ-TNG-2019-2020 Date: 4th July 2019

INTERNSHIP CERTIFICATE

This is to certify that Mr. M. Yeswanth Sai studyingB Tech (Civil Engineering), in SRKR Engineering College – Bhimavaram, vide Registration No.160301031, successfully completed his internship with us at our MLA Quarter Project, during the period from 22nd May 2019 to 4th June 2019.

KASP Rao

Consultant(HR)

NCC Limited * NCC * HYDERABAD-500 081.

NCC Limited
(Formerly Nagarjuna Construction Company Limited)
CIN: L72200TG1990PLC011146
NCC House, Madhapur, Hyderabad 500 081 T +91 40 2326 8888 F +91 40 2312 5555 ncclimited.com

40 YEARS IN NATION BUILDING

NCC

NCC/HO-HR/PROJ-TNG-2019-2020 Date: 4th July 2019

INTERNSHIP CERTIFICATE

This is to certify that Mr. Naveen Sahu studying B Tech (Civil Engineering), in SRKR Engineering College - Bhimavaram, vide Registration No.160301033, successfully completed his internship with us at our MLA QuarterProject, during the period from 22nd May 2019 to 4th June 2019.

KASP Rao

Consultant(HR)

NCC Limited * HYDERABAD-500 081. *

40 YEARS IN NATION BUILDING

NCC

NCC/HO-HR/PROJ-TNG-2019-2020 Date: 4th July 2019

INTERNSHIP CERTIFICATE

This is to certify that Mr. T Ravi studying B Tech (Civil Engineering), in SRKR Engineering College - Bhimavaram, vide Registration No.160301052, successfully completed his internship with us at our MLA QuarterProject, during the period from 22nd May 2019 to 4th June 2019.

KASP Rao

Consultant(HR)

NCC Limited HYDERABAD-500 081. NCC

NCC Limited
(Formerly Nagarjuna Construction Company Limited)
CIN: L72200TG1990PLC011146
NCC House, Madhapur, Hyderabad 500 081 T +91 40 2326 8888 F +91 40 2312 5555 ncclimited.com

3/4A - 134

GOVERNMENT OF ANDHRA PRADESH
WATER RESOURCES DEPARTMENT

POLAVARAM IRRIGATION PROJECT HEAD WORKS CIRCLE
DOWLAISWARAM – 533125, EAST GODAVARI DISTRICT

CERTIFICATE

This is to certify that ***D.PAVAN KISHORE VARMA*** ***bearing Roll No. 17B91A0134 of Civil Engineering*** **student has participated in the Project Work allotted by Department of Civil Engineering of S.R.K.R ENGINEERING COLLEGE, BHIMAVARAM to** ***POLAVARAM IRRIGATION PROJECT HEAD WORKS CIRCLE*** **from 10th MAY 2019 to 24th MAY 2019.**

During the above training period his/her perform ance and Conduct is

.....Satisfactory.....

K. Venkateswara Rao 12/7/19
DEPUTY SUPERINTENDING ENGINEER,
P.I.P. HEAD WORKS CIRCLE,
DOWLAISWARAM.

O/o. Superintending Engineer
Dt. 12/7/19
DOWLAISWARAM
533 125. E.G.Dt.
Irr. Works Circle

GOVERNMENT OF ANDHRA PRADESH
WATER RESOURCES DEPARTMENT

POLAVARAM IRRIGATION PROJECT HEAD WORKS CIRCLE
DOWLAISWARAM – 533125, EAST GODAVARI DISTRICT

CERTIFICATE

This is to certify that ***J.SRI SATYA VINEETH*** ***bearing Roll No. 17B91A0159 of Civil Engineering*** **student has participated in the Project Work allotted by Department of Civil Engineering of S.R.K.R ENGINEERING COLLEGE, BHIMAVARAM to** ***POLAVARAM IRRIGATION PROJECT HEAD WORKS CIRCLE*** **from 10th MAY 2019 to 24th MAY 2019.**

During the above training period his/her perform ance and Conduct is

.....Satisfactory.

Dy. Superintending Engineer ★ Dt. 12/7/19 DOWLAISWARAM 533 125, E.G.Dt. ★ Head Works Circle

K. Kalakrishna 12/7/19

DEPUTY SUPERINTENDING ENGINEER,
P.I.P. HEAD WORKS CIRCLE,
DOWLAISWARAM.

HES Infra Pvt. Ltd.

Ref. HES/AMT/2019-20/7

10-06-2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Miss T. Sravani Lakshmi (Register No. 17B91A01G3), B.Tech 2nd Year- II Semester Student of SRKR ENGINEERING COLLEGE (AUTONOMOUS), Bhimavaram, West Godavari-Dist. has successfully completed her Internship Program during the period from 12-05-2019 to 27-05-2019 at our Road No. N8 (Package-XIII) of Amaravathi Capital City. During the Internship Program, she has gone through various construction activities like RCC Power Duct, Storm Water Drain, Utility Crossings and various layers of Road Works. We found her to be hard working and has shown good interest in gaining the work experience.

We wish her all the best in her future studies and career.

For HES Infra Pvt Ltd

(M. Upendar Reddy)

Vice President

Copy to: office file.

CIN # U45400AP2007PTC054641
39, B N Reddy Colony, Road No. 14, Banjarahills, Hyderabad - 500 034 Tel (040) - 23546979/7989, Fax 040 - 23544822
E-mail: info@hesinfra.com web site : www.hesinfra.com

HES Infra Pvt. Ltd.
(An ISO 9001 - 2015 Certified Company)

Ref: HES/AMT/2019-20/12 10-06-2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Miss Y. Amrutha Lakshmi (Register No. 17B91A01H6), B.Tech 2nd Year- II Semester Student of SRKR ENGINEERING COLLEGE (AUTONOMOUS), Bhimavaram, West Godavari-Dist. has successfully completed her Internship Program during the period from 12-05-2019 to 27-05-2019 at our Road No. N8 (Package-XIII) of Amaravathi Capital City. During the Internship Program, she has gone through various construction activities like RCC Power Duct, Storm Water Drain, Utility Crossings and various layers of Road Works. We found her to be hard working and has shown good interest in gaining the work experience.

We wish her all the best in her future studies and career.

For HES Infra Pvt Ltd

HES INFRA PVT. LTD. 100619 AMARAVATHI

(M. Upendar Reddy)

Vice President

Copy To: Office file.

CIN # U45400AP2007PTC054641
39, B N Reddy Colony, Road No. 14, Banjarahills, Hyderabad - 500 034. Tel: (040) - 23546979/7989, Fax: 040 - 23544822
E-mail: info@hesinfra.com web site : www.hesinfra.com

HES Infra Pvt. Ltd.
(An ISO 9001 : 2015 Certified Company)

Ref: HES/AMT/2019-20/4

10-06-2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Miss Ch. Srivalli (Register No. 17B91A0123), B.Tech 2nd Year-II Semester Student of SRKR ENGINEERING COLLEGE (AUTONOMOUS), Bhimavaram, West Godavari-Dist. has successfully completed her Internship Program during the period from 12-05-2019 to 27-05-2019 at our Road No. N8 (Package-XIII) of Amaravathi Capital City. During the Internship Program, she has gone through various construction activities like RCC Power Duct, Storm Water Drain, Utility Crossings and various layers of Road Works. We found her to be hard working and has shown good interest in gaining the work experience.

We wish her all the best in her future studies and career.

For HES Infra Pvt Ltd

HES INFRA PVT. LTD. AMARAVATHI 10.06.19

(M. Upendar Reddy)

Vice President

Copy to office file.

HES Infra Pvt. Ltd.
(An ISO 9001 - 2015 Certified Company)

Ref: HES/AMT/2019-20/5

10-06-2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Miss G.L Aneela (Register No. 17B91A0143), B.Tech 2nd Year-II Semester Student of SRKR ENGINEERING COLLEGE (AUTONOMOUS), Bhimavaram, West Godavari-Dist. has successfully completed her Internship Program during the period from 12-05-2019 to 27-05-2019 at our Road No. N8 (Package-XIII) of Amaravathi Capital City. During the Internship Program, she has gone through various construction activities like RCC Power Duct, Storm Water Drain, Utility Crossings and various layers of Road Works. We found her to be hard working and has shown good interest in gaining the work experience.

We wish her all the best in her future studies and career.

For HES Infra Pvt Ltd

HES INFRA PVT. LTD. AMARAVATI 10.06.19

(M. Upendar Reddy)

Vice President

Copy to: office file.

CIN # U45400AP2007PTC054641
39, 8 N Reddy Colony, Road No. 14, Banjarahills, Hyderabad - 500 034. Tel: (040) - 23546979/7989, Fax: 040 - 23544822
E-mail: info@hesinfra.com web site : www.hesinfra.com

HES Infra Pvt. Ltd.
(An ISO 9001 - 2015 Certified Company)

Ref: HES/AMT/2019-20/13 10-06-2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Miss G. Shalini (Register No. 17B91A0152), B.Tech 2nd Year- II Semester Student of SRKR ENGINEERING COLLEGE (AUTONOMOUS), Bhimavaram, West Godavari-Dist. has successfully completed her Internship Program during the period from 12-05-2019 to 27-05-2019 at our Road No. N8 (Package-XIII) of Amaravathi Capital City. During the Internship Program, she has gone through various construction activities like RCC Power Duct, Storm Water Drain, Utility Crossings and various layers of Road Works. We found her to be hard working and has shown good interest in gaining the work experience.

We wish her all the best in her future studies and career.

For HES Infra Pvt Ltd

(M. Upendar Reddy)

Vice President

Copy To: Office file

HES INFRA PVT. LTD. AMARAVATHI 10-06-19

HES Infra Pvt. Ltd.
(An ISO 9001 - 2015 Certified Company)

Ref: HES/AMT/2019-20/1

10-06-2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Miss K. Neelima Ramalakshmi (Register No. 17B91A0169), B.Tech 2nd Year- II Semester Student of SRKR ENGINEERING COLLEGE (AUTONOMOUS), Bhimavaram, West Godavari-Dist. has successfully completed her Internship Program during the period from 12-05-2019 to 27-05-2019 at our Road No. N8 (Package-XIII) of Amaravathi Capital City. During the Internship Program, she has gone through various construction activities like RCC Power Duct, Storm Water Drain, Utility Crossings and various layers of Road Works. We found her to be hard working and has shown good interest in gaining the work experience.

We wish her all the best in her future studies and career.

For HES Infra Pvt Ltd

HES INFRA PVT. LTD. AMARAVATHI 10.06.19

(M. Upendar Reddy)

Vice President

Copy to: office file

HES Infra Pvt. Ltd.
(An ISO 9001 - 2015 Certified Company)

Ref: HES/AMT/2019-20/3

10-06-2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Miss Ch. Bhagya Darshini (Register No. 17B91A0121), B.Tech 2nd Year- II Semester Student of SRKR ENGINEERING COLLEGE (AUTONOMOUS), Bhimavaram, West Godavari-Dist has successfully completed her Internship Program during the period from 12-05-2019 to 27-05-2019 at our Road No. N8 (Package-XIII) of Amaravathi Capital City. During the Internship Program, she has gone through various construction activities like RCC Power Duct, Storm Water Drain, Utility Crossings and various layers of Road Works. We found her to be hard working and has shown good interest in gaining the work experience.

We wish her all the best in her future studies and career.

For HES Infra Pvt Ltd

HES INFRA PVT. LTD. 10-06-19 AMARAVATHI

(M. Upendar Reddy)

Vice President

Copy to: office file

CIN # U45400AP2007PTC054641
39, B N Reddy Colony, Road No. 14, Banjarahills, Hyderabad - 500 034. Tel: (040) - 23546979/7989, Fax: 040 - 23544822
E-mail: info@hesinfra.com web site : www.hesinfra.com

HES Infra Pvt. Ltd.
(An ISO 9001 - 2015 Certified Company)

Ref: HES/AMT/2019-20/6

10-06-2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Miss G. Jamitha (Register No. 17B91A0151), B.Tech 2nd Year-II Semester Student of SRKR ENGINEERING COLLEGE (AUTONOMOUS), Bhimavaram, West Godavari-Dist. has successfully completed her Internship Program during the period from 12-05-2019 to 27-05-2019 at our Road No. N8 (Package-XIII) of Amaravathi Capital City. During the Internship Program, she has gone through various construction activities like RCC Power Duct, Storm Water Drain, Utility Crossings and various layers of Road Works. We found her to be hard working and has shown good interest in gaining the work experience.

We wish her all the best in her future studies and career.

For HES Infra Pvt Ltd.

HES INFRA PVT. LTD. AMARAVATHI 10.06.19

(M. Upendar Reddy)

Vice President

Copy to: office file

HES Infra Pvt. Ltd.
(An ISO 9001-2015 Certified Company)

10-06-2019

Ref: HES/AMT/2019-20/11

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Miss J.V.V Manimala (Register No. 17B91A0165), B.Tech 2nd Year- II Semester Student of SRKR ENGINEERING COLLEGE (AUTONOMOUS), Bhimavaram, West Godavari-Dist. has successfully completed her Internship Program during the period from 12-05-2019 to 27-05-2019 at our Road No. N8 (Package-XIII) of Amaravathi Capital City. During the Internship Program, she has gone through various construction activities like RCC Power Duct, Storm Water Drain, Utility Crossings and various layers of Road Works. We found her to be hard working and has shown good interest in gaining the work experience.

We wish her all the best in her future studies and career.

For HES Infra Pvt Ltd

HES INFRA PVT. LTD. AMARAVATHI 10-06-19

(M. Upendar Reddy)

Vice President

Cpy To: office file.

*

GOVERNMENT OF ANDHRA PRADESH
WATER RESOURCES DEPARTMENT

POLAVARAM IRRIGATION PROJECT HEAD WORKS CIRCLE
DOWLAISWARAM – 533125, EAST GODAVARI DISTRICT

CERTIFICATE

This is to certify that *G.CHINNI KRISHNA bearing Roll No. 17B91A0144 of Civil Engineering* student has participated in the Project Work allotted by Department of Civil Engineering of S.R.K.R ENGINEERING COLLEGE, BHIMAVARAM to *POLAVARAM IRRIGATION PROJECT HEAD WORKS CIRCLE* from 12th MAY 2019 to 24th MAY 2019.

During the above training period his/her perform ance and Conduct is

...Satisfactory...

K. Venkateswara Rao 20/5/19.
DEPUTY SUPERINTENDING ENGINEER,
P.I.P. HEAD WORKS CIRCLE,
DOWLAISWARAM.

BEE 160104183

ओएनजीसी
ONGC

आयल एण्ड नेचुरल गैस कॉरपोरेशन लिमिटेड
गोदावरी भवन, बेस कान्पेक्स, राजमंड्री परिसम्पत्ति / के.जी. बेसिन, राजमंड्री - 533 106 (आं.प्र.)
Oil and Natural Gas Corporation Limited
Godavari Bhavan, Base Complex, Rajahmundry Asset / K.G. Basin
Rajahmundry - 533 106 (A.P.)
Phones : 0883-2431570-85, Fax : 0883-2427788
Grams : COMONG

STAFF TRAINING INSTITUTE
RAJAHMUNDRY

NO: RJY/STI/PW/429/2019-20

Date: 20.01.2020

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Mr. Saladi Venkata Satya Sitaram, a student of B.Tech(EEE), at SRKR Engineering College, Bhimavaram, has successfully completed internship at ONGC, Rajahmundry, on "AN OVERVIEW OF MAINTENANCE OF ELECTRICAL EQUIPMENTS DURING THE OPERATIONS OF DRILLING RIGS/INSTALLATIONS" under the guidance of Shri. J.K.Toppo, GM(E), ONGC, Rajahmundry.

During the internship he took keen interest in the assigned work. We wish him all success in his future academic endeavours and life.

RAJAHMUNDRY AP ONGC STI

STI INWARD No..... Dt.20/01/20

(G Sriram)

Staff Training Institute
ONGC, Rajahmundry.

G.SRIRAM
SR. HR EXECUTIVE-STI
ONGC, RAJAHMUNDRY

SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [REGD]
VIJAYAWADA

REGD No: 183/1992

DATE: 17-06-2019

TO WHOM SOEVER IT MAY CONCERN

This is to certify that Mr. YARLAGADDA RAKESH KUMAR S/o Sri. Y. SUDHAKAR Enrollment No: 160106359 course BACHELOR OF TECHNOLOGY – MECH – semester III-2, student of SAGI RAMAKRISHNAM RAJU ENGINEERING COLLEGE, Bhimavaram, has successfully completed the INTERNSHIP in MECHANICAL DEPARTMENT, SOUTH CENTRAL RAILWAY, VIJAYAWADA from 15TH May '2019 to 15TH Jun '2019.

During the tenure of his internship, his conduct and contribution have been GOOD.

We wish him all the best and success.

Sudhasrinivas.
SECRETARY
SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [Regd.]
VIJAYAWADA.

S.N.V. Sulekha.P
PRESIDENT
SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [Regd.]
VIJAYAWADA.

SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION (REGD)
VIJAYAWADA

REGD No: 1857/97

DATE: 17-06-2019

TO WHOM SOEVER IT MAY CONCERN

This is to certify that Mr. GEDDADA DANESWARA RAO S/o Sri. G. SRINIVAS Enrollment No: 160106315 course BACHELOR OF TECHNOLOGY - MECH - semester III-2, student of BAPATLA RAMAKRISHNAM RAJU ENGINEERING COLLEGE, Bhimavaram, has successfully completed the INTERNSHIP in MECHANICAL DEPARTMENT, SOUTH CENTRAL RAILWAY, VIJAYAWADA from 15TH May '2019 to 15TH Jun '2019.

During the tenure of his internship, his conduct and contribution have been GOOD.

We wish him all the best and success.

Sudhasrinivas.
SECRETARY
SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [Regd.]
VIJAYAWADA.

B.N.V Lakshmi P
PRESIDENT
SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [Regd.]
VIJAYAWADA.

SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [REGD]
VIJAYAWADA

REGD No: 183/1991

DATE: 17/06/2019

TO WHOM SOEVER IT MAY CONCERN

This is to certify that Mr. KONATHALA TULASI MAHESH S/o Sri. K. SRINIVAS Enrollment No: 160106330 course BACHELOR OF TECHNOLOGY - MECH - semester III-2, student of SAGI RAMAKRISHNAM RAJU ENGINEERING COLLEGE, Bhimavaram, has successfully completed the INTERNSHIP in MECHANICAL DEPARTMENT, SOUTH CENTRAL RAILWAY, VIJAYAWADA from 15TH May '2019 to 15TH Jun '2019.

During the tenure of his internship, his conduct and contribution have been GOOD.

We wish him all the best and success.

Sudhasrinivas.
SECRETARY
SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [Regd.]
VIJAYAWADA.

S.N.V. Sujekha.P
PRESIDENT
SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [Regd.]
VIJAYAWADA.

SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [REGD]
VIJAYAWADA

REGD No: 183/1993

DATE: 17.06.2019

TO WHOM SOEVER IT MAY CONCERN

This is to certify that Ms. MAHANTHI PRAVALLIKA D/o Sri. M. SRINIVASA Enrollment No: 160106336 course BACHELOR OF TECHNOLOGY - MECH - semester III-2, student of SAGI RAMAKRISHNAM RAJU ENGINEERING COLLEGE, Bhimavaram, has successfully completed the INTERNSHIP in MECHANICAL DEPARTMENT, SOUTH CENTRAL RAILWAY, VIJAYAWADA from 15TH May '2019 to 15TH Jun '2019.

During the tenure of her internship, her conduct and contribution have been GOOD.

We wish her all the best and success.

Sudhasrini Vas.
SECRETARY
SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [Regd.]
VIJAYAWADA.

S.N.V. Surekha.P
PRESIDENT
SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [Regd.]
VIJAYAWADA.

17

SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [REGD]
VIJAYAWADA

REGD No: 183/1992

DATE: 06-06-2019

TO WHOM SOEVER IT MAY CONCERN

This is to certify that Mr. NALLAPA REDDY SAI PAVAN TEJA REDDY S/o Sri. NALLAPA REDDY AYYALA REDDY Enrollment No: 17B91A03J2 course BACHELOR OF TECHNOLOGY – MECH – semester II-2, student of SAGI RAMAKRISHNAM RAJU ENGINEERING COLLEGE, Bhimavaram, has successfully completed the INTERNSHIP in MECHANICAL DEPARTMENT, SOUTH CENTRAL RAILWAY, VIJAYAWADA from 05TH May '2019 to 05TH Jun '2019.

During the tenure of his internship, his conduct and contribution have been GOOD.

We wish him all the best and success.

Sudhasini Vas.
SECRETARY
SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [Regd.]
VIJAYAWADA.

S.N.V. Suvekha.P
PRESIDENT
SOUTH CENTRAL RAILWAY
WOMEN'S WELFARE ORGANISATION [Regd.]
VIJAYAWADA.

NEW PROPELLER TECHNOLOGIES
Research & Development Pvt Ltd

No: 57, WB road, Trichy - 8
www.propellertechnologies.in
support@propellertechnologies.in

Ref :PT-TRY- 10820

Date: AUG 5 2019

TO WHOMSOEVER IT MAY CONCERN

This is to certify that

Mr. Maturi Mahendra Gupta, ID NO: 3151757250167, student of Mechanical Engineering from **Sagi Ramakrishnam Raju Engineering College,** has completed one month internship programme (from 3rd june, 2019 to 1st july, 2019) at **New Propeller Technologies R&D Pvt Ltd.**

During the internship he was trained in Electronics & Dynamics of Drone and successfully completed the project **Drone with flower dropping mechanism.**

As per our measurements and reporting structure he is hard working & inquistive during the internship programme.

We wish him all success for the future endeavours.

.....
N. Salman
R&D Department.

17B91A1230

SRI MAHARSHI
CONSULTANCY

27-17-55/5, II Flr, ASR Nagar, TV Tower
Near GSR Royal, Bhimavaram 534202
+91-9666[illegible]
info@srimaharshiconsultancy.
www.srimaharshiconsultancy.

Bhimavaram

15 Feb 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify **DAMMALA SANDEEP (REGD NO: 17B91A1230)** of S.R.K.R. Engineering college, Department of Information Technology has completed his Internship project at Sri Maharshi Consultancy Pvt Ltd during the period of 22nd July 2019 and 15th February 2020.

Sri Maharshi Consultancy Pvt Ltd is Product organization offering products and services to National and International customers with primary focus in Banking Domain (Mobile Banking, Online Banking, USSD Banking, Biometric Banking, Loans)

Customer Relationship Management is a product of Sri Maharshi Consultancy Pvt Ltd designed to simplify operations of Bank Call Centre team. Bank Call Centre team logs and tracks each compliant from customer and this system enables faster recovery and resolutions for customers. Management team tracks compliant resolution times

As an intern, Sandeep has completed assigned tasks in Screen Configuration, Development of Transfer Objects, Data Access Objects, Service Development, Deployment of war to AWS EC2 instances and Testing. Functional areas of contribution: Customer Registration, Ticket Management, Ticket Category Management, System user management as per Product Framework.

Sandeep is very good resource and we appreciate all the effort and contribution for the project

We wish you all the very best Sandeep!

SRI MAHARSHI CONSULTANCY PVT. LTD. * BHIMAVARAM 534 202

Srinivasa Varma M

Director & CTO

SRI MAHARSHI
CONSULTANCY

27-17-55/5, II Flr, ASR Nagar, TV Tower Road,
Near GSR Royal, Bhimavaram 534202 India
+91-96661-33190
info@srimaharshiconsultancy.com
www.srimaharshiconsultancy.com

Bhimavaram

15 Feb 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify **GOTTUMUKKALA DHANANJAY VARMA (REGD NO: 17B91A1246)** of S.R.K.R. Engineering college, Department of Information Technology has completed his Internship project at Sri Maharshi Consultancy Pvt Ltd during the period of 22nd July 2019 and 15th February 2020.

Sri Maharshi Consultancy Pvt Ltd is Product organization offering products and services to National and International customers with primary focus in Banking Domain (Mobile Banking, Online Banking, USSD Banking, Biometric Banking, Loans)

Customer Relationship Management is a product of Sri Maharshi Consultancy Pvt Ltd designed to simplify operations of Bank Call Centre team. Bank Call Centre team logs and tracks each compliant from customer and this system enables faster recovery and resolutions for customers. Management team tracks compliant resolution times

As an intern, Dhananjay Varma has completed assigned tasks in Screen Configuration, Development of Transfer Objects, Data Access Objects, Service Development, Deployment of war to AWS EC2 instances and Testing. Functional areas of contribution: Customer Registration, Ticket Management, Ticket Category Management, System user management as per Product Framework.

Dhananjay Varma is very good resource and we appreciate all the effort and contribution for the project.

We wish you all the very best Dhananjay Varma!

Srinivasa Varma M

Director & CTO

17B91A12B4

SRI MAHARSHI
CONSULTANCY

27-17-55/5, II Flr, ASR Nagar, TV Tower
Near GSR Royal, Bhimavaram 534
+91-9
info@srimaharshiconsultanc
www.srimaharshiconsultancy

Bhimavaram

15 Feb 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify **NANDYALA AJAY (REGD NO: 17B91A12B4)** of S.R.K.R. Engineering college, Department of Information Technology has completed his Internship project at Sri Maharshi Consultancy Pvt Ltd during the period of 22nd July 2019 and 15th February 2020.

Sri Maharshi Consultancy Pvt Ltd is Product organization offering products and services to National and International customers with primary focus in Banking Domain (Mobile Banking, Online Banking, USSD Banking, Biometric Banking, Loans)

Customer Relationship Management is a product of Sri Maharshi Consultancy Pvt Ltd designed to simplify operations of Bank Call Centre team. Bank Call Centre team logs and tracks each compliant from customer and this system enables faster recovery and resolutions for customers. Management team tracks compliant resolution times

As an intern, Ajay has completed assigned tasks in Screen Configuration, Development of Transfer Objects, Data Access Objects, Service Development, Deployment of war to AWS EC2 instances and Testing. Functional areas of contribution: Customer Registration, Ticket Management, Ticket Category Management, System user management as per Product Framework.

Ajay is very good resource and we appreciate all the effort and contribution for the project

We wish you all the very best Ajay!

SRI MAHARSHI CONSULTANCY PVT. LTD. BHIMAVARAM 534 202

Srinivasa Varma M

Director & CTO

SRI MAHARSHI
CONSULTANCY

27-17-55/5, II Flr, ASR Nagar, TV Tower Road,
Near GSR Royal, Bhimavaram 534202 India
+91-96661-33190
info@srimaharshiconsultancy.com
www.srimaharshiconsultancy.com

Bhimavaram

15 Feb 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify **PAMULAPATI TARUN SAI (REGD NO: 17B91A12C4)** of S.R.K.R. Engineering college, Department of Information Technology has completed his Internship project at Sri Maharshi Consultancy Pvt Ltd during the period from 22nd July 2019 to 15th February 2020.

Sri Maharshi Consultancy Pvt Ltd is Product organization offering products and services to National and International customers with primary focus in Banking Domain (Mobile Banking, Online Banking, USSD Banking, Biometric Banking, Loans)

Banking Services - With Beacon Devices is an R&D product of Sri Maharshi Consultancy Pvt Ltd designed to improve In-Branch services for customers like Automated Token generation for customers, Displaying In-Branch services menu for customer on mobile the moment they step in to bank. This requires Bluetooth to be enabled and Banking app to be pre-installed on customer mobile.

As an intern, Tarun Sai is involved in server side development of this project and has completed assigned tasks in Screen Configuration, Development of Transfer Objects, Data Access Objects, Service Development, Deployment of war to AWS EC2 instances and Testing. Functional areas of contribution: Customer Registration, Branch List management, Service Menu management, Tracking of Customers in Branch, System user management as per Product Framework.

Tarun Sai is very good resource and we appreciate all the effort and contribution for the project

We wish you all the very best Tarun Sai!

SRI MAHARSHI CONSULTANCY PVT. LTD. * BHIMAVARAM 534 202

Srinivasa Varma M

Director & CTO

INTERNSHIP CERTIFICATE

To Whom It May Concern

This is an **Internship Completion Certificate** for **Mr. R.S.V.Shanmukh**, B tech 3rd year – IT. **S.R.K.R Engineering College**.

We state record that **R.S.V.Shanmukh** has successfully completed an internship on Java Web **Development** in the role of **Software Developer Intern at Barelogic Solutions PVT.LTD. Hyderabad, Hyderabad .** The internship start date 8- May-2019 and end date 15-June-2019.

During this period **R.S.V.Shanmukh** shows a lot of promise and skill in his work and we wish him all the best in all his future endeavors.

Mr. Ramesh
Project Lead

Barelogic Solutions Private Limited

Barelogic Solutions Pvt LTD
N Heights, Level 6, Block 44,Plot No. 38, Siddiq Nagar, Hitechcity, Hyderabad, Telangana-500
+91 8143123593 contact@barelogics.com www.barelogics.com

TECHNOVERT

August 31st, 2021

TO WHOM IT MAY CONCERN

This is to certify that **Ms. Adabala Devi Chandana** successfully completed 7 months (from 20-Dec-2019 to 02-August-2020) of Internship at **Technovert Solutions Pvt Ltd.**

During the period of her Internship with us the candidate had been exposed to different processes and was found punctual, hardworking and inquisitive.

We wish her all the best in her future endeavors.

For Technovert Solutions Pvt Ltd

Nisha Nayar
Head HR

Gandhigram
Visakhapatnam - 530 005 (INDIA)
(An ISO - 9001:2015 Company)

गांधीग्राम
विशाखपट्टणम - 530 005 (भारत)
(आईएसओ - 9001 : 2015 कंपनी)

Ref: T&D/624/19

Date: 15-06-2019

CERTIFICATE

This is to certify that Mr. **THOTA RAJU** (Photograph is affixed below) is son of Sri. T.ARUN, studying B.Tech in **MECHANICAL ENGINEERING III Year SAGI RAMAKRISHNAM RAJU ENGINEERING COLLEGE(A)**, BHIMAVARAM has undergone Internship in **SUBMARINE & DESIGN DEPARTMENT from 01.06.2019 To 15.06.2019**. His conduct during the above period was found to be **GOOD.**

SHIPYARD LTD. VISAKHAPATNAM 530005

For Hindustan **Shipyard Ltd.**

Dr. S. Somasundaram 15/6/2019
Manager (Training & Development)

EEE - 160104160

Regd. No. : Y1905E1E2W00719

ANDHRA PRADESH POWER GENERATION CORPORATION LIMITED

APGENCO

ISO 9001:2015 Certified by IRQS

NABCB QM 006

TRAINING INSTITUTE

IBRAHIMPATNAM - 521 456, KRISHNA DISTRICT.

CERTIFICATE

This is to Certify that Sri / Smt. / Kum. **PEDDAMALLU AMRUTHA** *(EEE)*

Son / Wife / Daughter of Sri.... **PEDDAMALLU VENKATA NARASIMHAM** *..... student of*

SRKR Engg. College (A), BHIMAVARAM *.....has participated in Two Weeks Industrial Training / Internship / Mini Project on Thermal Power Plant Familiarisation for Engineering Students conducted at* APGENCO *Training Institute.*

from **20-05-2019** *... to* **01-06-2019** *...*

CHIEF ENGINEER
TRAINING INSTITUTE &
Dr. NTTPS Stage - V Construction
APGENCO

(12)

Durga Diesel Works

D.No. 2-15-13, Near Town Fly Gate, Lhrd Road,
BHIMAVARAM - 2, Ph: 08816 - 272838, 08481 [illegible], 08434 [illegible]

BOSCH MICO
Authorised Workshop

CERTIFICATE

This is to certify that Mr. PEDDETI MANOJ PHANI DATTA V V S NARAYANA MURTHY, RegdNo:17B91A03L2, student of Mechanical engineering at S.R.K.R ENGINEERING COLLEGE has undergone Industrial training in BOSCH and MICO Automotives especially on Nozzle repairing and maintenance of diesel engines from 20/05/19 to 10/06/19.

His conduct during the period of training is Good.

Place: Bhimavaram,

Date: 09/07/19

Signature of Authorized Officer

For DURGA DIESEL WORKS

PROPRIETOR

राष्ट्रीय इस्पात निगम लिमिटेड Rashtriya Ispat Nigam Limited
विशाखपट्टणम इस्पात संयंत्र Visakhapatnam Steel Plant
तकनीकी प्रशिक्षण केन्द्र Technical Training Institute
विशाखपट्टणम Visakhapatnam-530031

VIZAG STEEL Pride of Steel A Navratna Company

No. 05224
00005224

प्रमाण पत्र CERTIFICATE

31900TN02628-0193

प्रामाणित किया जाता है कि श्री/*This is to certify that*

Mr./Ms. PALISETTI SIVA SAI RAM *a student of*

(वर्ष/पाठ्यक्रम/शाखा *Year/Course/Branch*/ III/B TECH/MECHANICAL

विध्यार्थी ने *from* S R K R ENGINEERING COLLEGE,BHIMAVARAM से

has undergone INTERNSHIP प्रशिक्षण *training* विशाखपट्टणम इस्पात संयंत्र

के *at Visakhapatnam Steel Plant in* ENGINEERING SHOPS & FOUNDRY

विभागों में *depts. from* दि 06/05/2019 से *to* 18/05/2019 तक प्राप्त किया।

परियोजना शीर्षक *The project title is* **********

है।

प्रशिक्षण अवधि में उनका आचरण *His/Her conduct during the period of training is* GOOD है।

स्थल/Place : Visakhapatnam

दि/Date 18/05/2019

प्रक्षिण समन्वयक के हस्ताक्षर मोहर के साथ।
Signature of Training Co-Ordinator with Seal

जे. प्रभाकर राव-J. PRABHAKARA RAO
प्रबंधक (प्रशिक्षण)-Manager (Trg.)
तकनीकी प्रशिक्षण संस्थान
Technical Training Institute
आर आई एन एल,विशाखपट्टणम इस्पात संयंत्र
RINL,Visakhapatnam Steel Plant
विशाखपट्टणम-Visakhapatnam-530 031

India's energy anchor

ओएनजीसी ONGC

ऑयल एण्ड नेचुरल गैस कॉरपोरेशन लिमिटेड
राजमँड्री परिसम्पत्ति / के.जी. - पी.जी. बेसिन, गोदावरी भवन, बेस काम्पलेक्स, राजमँड्री - 533 106. (आं.प्र.)
Oil and Natural Gas Corporation Limited
Rajahmundry Asset / KG-PG Basin, Godavari Bhavan, Base Complex,
Rajahmundry - 533 106. (A.P.)
Phone : 0883-2431570 - 85. Fax : 0883-2427788
Grams : COMONG

STAFF TRAINING INSTITUTE
RAJAHMUNDRY

NO: RJY/STI/PW/332/2019-20

Date: 09.07.2019

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Mr. Alluri Suhas, a student of B.Tech (Mechanical Engineering) from Sagi Rama Krishnam Raju Engineering College, Bhimavaram has successfully completed Internship at ONGC, Rajahmundry, from 22.05.2019 to 18.06.2019 on "DIRECTIONAL DRILLING" under the guidance of Shri. G. Sri Hari, CGM (P), ONGC, Rajahmundry.

During the Internship he took keen interest in the assigned work. We wish him all success in his future academic endeavours and life.

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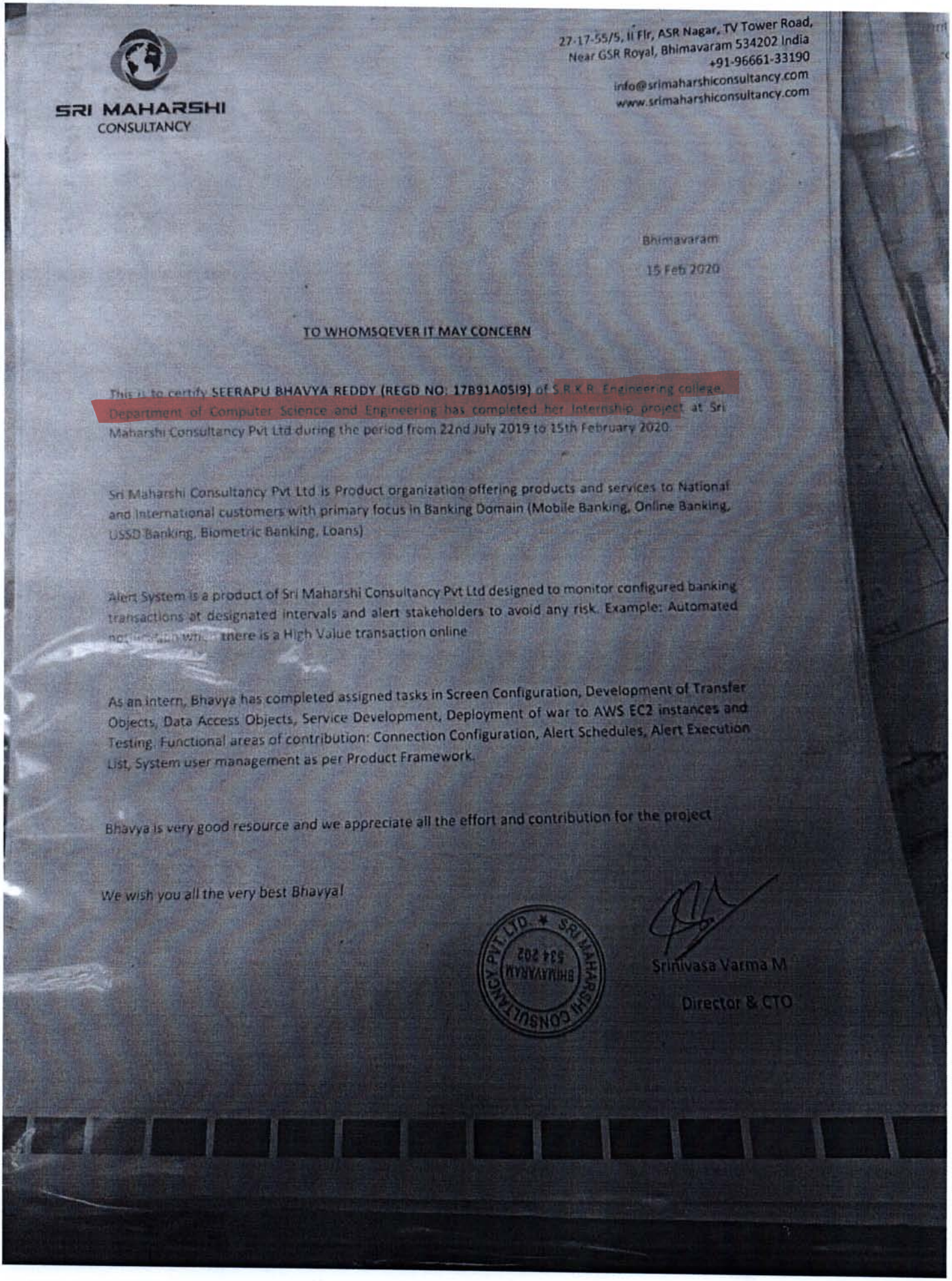

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Bhimavaram

15 Feb 2020

TO WHOMSOEVER IT MAY CONCERN

This is to certify **SEERAPU BHAVYA REDDY (REGD NO: 17B91A05I9)** of S.R.K.R. Engineering college, Department of Computer Science and Engineering has completed her Internship project at Sri Maharshi Consultancy Pvt Ltd during the period from 22nd July 2019 to 15th February 2020.

Sri Maharshi Consultancy Pvt Ltd is Product organization offering products and services to National and International customers with primary focus in Banking Domain (Mobile Banking, Online Banking, USSD Banking, Biometric Banking, Loans)

Alert System is a product of Sri Maharshi Consultancy Pvt Ltd designed to monitor configured banking transactions at designated intervals and alert stakeholders to avoid any risk. Example: Automated notification when there is a High Value transaction online

As an intern, Bhavya has completed assigned tasks in Screen Configuration, Development of Transfer Objects, Data Access Objects, Service Development, Deployment of war to AWS EC2 instances and Testing. Functional areas of contribution: Connection Configuration, Alert Schedules, Alert Execution List, System user management as per Product Framework.

Bhavya is very good resource and we appreciate all the effort and contribution for the project

We wish you all the very best Bhavya!

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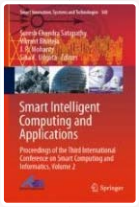
Srinivasa Varma M

Director & CTO



Smart Intelligent Computing and Applications pp 471–476

Tweet Segmentation—A Novel Mechanism

Chinta Someswara Rao, R. Shiva Shankar & Sangapu Venkata Appaji

Conference paper | First Online: 04 October 2019

466 Accesses

Part of the Smart Innovation, Systems and Technologies book series (SIST,volume 160)

Abstract

In order to process tweet segmentation, it requires a sophisticated framework. Through a specific process the tweets are segmented based on several aspects. Some of them are the linguistics or context knowledge based and this is so protective as well as effective. They are separated by the downstream applications. It finds the best segmentation of a tweet by increasing the sum of the viscousness scores of its candidate segments. For testing planned system, we tend to thought-about two tweet phase datasets, the experimental results by the planned system considerably improved in terms of global and local contexts.

Keywords

WWW **Tweet** **Segment** **Stickiness scores** **Social network**

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DIGITAL IMAGE-IN-IMAGE WATERMARKING FOR COPYRIGHT PROTECTION AND AUTHENTICATION

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ABSTRACT

The internet is an outstanding distribution and sales channel for digital assets, but copyright compliance and content management can be a challenge. If you distribute electronic images, be it online or CDs and other portable media, you are risking digital piracy. These days, digital images can be utilized - with or without consent everywhere. For the consent of the person's authentication and copyright, in this paper a digital image watermarking is proposed. The suggested digital watermarking is a method which allows a person to add invisible copyright images or notices or text messages to image and documents. In this paper, a invisible watermarking is proposed for authentication and copyright protection. This mechanism calculates the checksum for watermark and embedded within the original image at random pixels. This mechanism does not disturb the original image quality and key factors. So that intruder or unauthorized person does not identifying hiding information. From the results of the experiment, it is also observed that proposed method not only produces the quality watermarked images but also produces the quality check sum that will used for authentication.

Keywords: internet, authentication, copyright protection, digital assets, digital piracy, digital watermarking, check sum.

1. INTRODUCTION

Manipulations and flawless copying is subordinated with the magnificent multimedia processing software and the far-anchoring coverage of the interconnected systems. A consistent advancement in terms of storage and retrivalsegements has smoothened in relation with large-scale multimedia repository applications. Exploitation and wild misuse of these technologies and facilities has thrown a challenge of impending threats to multimedia security management on a general basis, and multimedia copyright protection and content integrity verification in specific [1, 2].

Cryptography has a tremendous and extended record of program to information and multimedia security. The option of not providing coverage to the media if encrypted has restricted the feasibility of its prevalent usage. Digital watermarking technique has been proposed as a panacea as a counter to these challenges in the previous decade. The small amount of the thought of digital watermarking is to embed a small amount of indiscernible highly confidential information in the multimedia so that it can be extracted later for the purposes of asserting copyright, controlling duplicity, broadcast and authenticating, confirmation of content integrity etc [3, 4].

1.1 Background

Innumerable number of watermarking schemes has been advised for various applications. It is anticipated from an embedded watermark to be resistant in terms of for copyright-related applications, the embedded watermark is expected to be immune to various sorts of malevolent and non-malevolent manipulations in a little purview, until the content tends to be worth in terms of monetary relevance or spare able in conditions of perceptual quality. Therefore, watermarking schemes for copyright related applications are robust [1, 2], i.e. they are made to ignore or continue to be insensitive to manipulations. Conversely, in medical, forensic, and intelligence or military applications where content integrity and source authentication are a significant matter, more emphases are put on the strategies' capacity for discovering forgeries and impersonations. Therefore, plans of this type are usually fragile or semi-fragile and are designed to be intolerant to manipulations [3, 4]. The embedding is a common indulger and incurs distortion to this content even if a watermark was created to be undiscernible to the users. Petty modifications and trivial chages in the content are not acceptable. Reversible watermarking schemes have been proposed to clear the watermark in order to recover the original media after passing the authentication process in the recent years. Digital watermarking completely vary across applications [5, 6]. The key requisites are minimum distortion, maximum capacity, and high security. Getting along with all the three requirements concurrently is not worthy as trade-offs are made to whoop up the balance for every specific application every now and then. In many applications where original media is unavailable at the watermark decoder, blind detection of the watermark without the prior understanding of the initial is desirable.

1.2 Literature survey

The present literature of the watermarking is presented in this section.

Tuncer T [7] proposed another probabilistic picture confirmation strategy. Disorganized pseudo irregular number generators, another watermark arrange which like neural system, modulo based watermark installing capacities, modulo based watermark extraction capacities, alter recognition calculation and perceptual hash based picture recuperation calculation are used for making another probabilistic picture verification strategy.

Cardiotocography Class Status Prediction Using Machine Learning Techniques.

- **Source:** Indian Journal of Public Health Research & Development . Aug2019, Vol. 10 Issue 8, p651-657. 7p.

- **Author(s):** Appaji, Sangapu Venkata; Shankar, R. Shiva; Murthy, K. V. S.; Rao, Chinta Someswara

- **Abstract:** Physicians used Cardiotocography (CTG) to knowing of fetal well-being and potential complications from pregnant women. They used a continuous electronic record of the baby's heart rate took from the mother's abdomen. They visualized the unhealthiness that will give an opportunity for early intervention. CTG class status is classified in this paper with machine learning methods by using attributes of data obtained from the uterine contraction (UC) and fetal heart rate (FHR) signals and visualized the acquired information. This classification and visualization will help the doctor while treatment the patient. Experimental results has shown good accuracy score and low error rate.

Comparative Analysis of Three Single Trait Biometric Authentication Models

Balaka Ramesh Naidu, K.V.L Bhavani, Ch Someswara Rao and P.V.G.D Prasad Reddy

***Abstract*—In traditional authentication model, user identification is based on Password, PIN or Signature, but sometimes these can be lost, stolen, or subjected to spoofing attack. In biometric authentication system, a user is identified through physical or behavioural features. These features include fingerprint, palmprint, face, iris, signature, speech, and so on. The main challenging task in biometric is about storage problem, and transmission of huge data. By replacing PINs, use of biometric traits can certainly deny unauthorized access or fraudulent use of ATMs, mobile phones, smart cards, data centres, personal computers, and computer networks. The performance can be measured by evaluating performance metrics i.e., FAR, FRR, FTC, and EER. This paper proposes three different uni-modal biometric authentication systems using fingerprint, face, and voice signal as sources. A new technique is designed and applied to each biometric authentication system.**

***Index Terms*—Failure to Capture (FTC), Failure to Enroll (FTE), False Acceptance Rate (FAR) GAR (Genuine Acceptance Rate), False Rejection Rate (FRR), Equal Error Rate (EER)**

I. Introduction

In this proposes three different uni-modal biometric authentication systems based on fingerprint, face, and voice signal as source of input. Fingerprint input data is acquired by using thumb print, Face data is collected using webcam and Voice information is collected using mike recorder. The modal of each biometric authentication system implementation involves based on different phases. Initially, fingerprint data and face data features are extracted using HOG method and FFT for voice signal extraction. Then, GMM method is applied for distributing the data in bell shaped curve format. Finally, both testing data and trained dataset are correlated to authenticate user.

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All these phases are explained subsequently in this paper along with results. False Acceptance Rate (FAR) gives the details of faulty acceptances in the biometric authentication system. It can be defined as the ratio of number of false acceptances and number of authentication attempts [1]. False Rejection Rate (FRR) provides measure about wrongly rejecting authorized users.

This can be defined as the ratio of the number of false recognitions and the total number of identification attempts.Equal Error Rate (EER) can be defined as the rate at which both acceptance and rejection errors are same. The EER is an easy method to compare the accuracy of devices [2-4]. In general the system with the lowest EER is the best one. Failure to capture (FTC) can be defined as the probability that the system fails to find a biometric input when it is correctly given [5-7].Survey is Discussed in Section II. Methodology is explained in Section III. Conclusions are presented in Section IV.

II. Literature Review

There are many existing biometric systems that provide identification or verification. The intention of these biometric systems is to enhance the efficiency and robustness. This section summarizes existing work. Gualberto Aguilar et al., [8-10] proposed a multimodal biometric system with Fast Fourier Transform (FFT) and Gabor Filters combination to enhance the image and later a novel stage of recognition using Local Features and Statistical Parameters.

Feten Besbes et al., [6] presented a multimodal biometric system based on fingerprint and iris recognition. This proposed system is tested with database of grayscale fingerprints and eye images. .Yash Mittal et al., [7] proposed two applications of fingerprint biometric system. One of them is An Access Control System (ACS) prototype that demonstrated for person-specific door access, using a fingerprinting device. Another prototype of a Classroom Attendance Management System (CAMS) is developed that uses fingerprint as biometric feature for classroom attendance. Nur Izzati Zaina et al., [8] developed a portable fingerprint biometric system for classroom attendance which is more secure. The circuit of this device is strategically

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Multiple Flat Beams Generation Using Firefly and Teaching Learning Based Optimization Techniques

R. Krishna Chaitanya, P. Mallikarjuna Rao, K. V. S. N. Raju and G. S. N. Raju

Abstract Multiple flat beams have an extensive range of applications in mobile and wireless communications. They facilitate many users to connect simultaneously. Multiple beam pattern can be produced utilizing both conventional and modern optimization techniques. Teaching learning based optimization and Firefly are applied for Multibeam purpose in this paper. Multibeam with a beamwidth of 0.2 (in U — $\sin\theta$) each are produced. In the present work, unsymmetric array antenna is utilized to generate the Multibeam pattern. The beams are well-formed, and they are observed to be optimized. The patterns are presented in U domain. The resultant distribution of antenna parameters is found, with the goal that they can be used directly in Array antenna design.

Keywords Firefly algorithm · Linear array antenna · Teaching learning based optimization · Multiple flat beams

1 Introduction

It is well known that it is easy to excite and design input sources of array antennas for user-specified radiation beams. The initial narrow beams can be reshaped into any other shape applying any one of the optimization techniques. However, the conventional procedures like Fourier transform and Woodward sampling techniques yield only approximate pattern. In view of these facts, the state of the art algorithms namely teaching learning-based optimization (TLBO) and firefly algorithm is used to obtain specified radiation shapes in the far-field region. An extensive review of varied optimization techniques is made with existing techniques. Different

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E-Shaped Patch Antennas for Multitasks/Uninterrupted 5G Communications

Basheer Ali Sheik, Sridevi P. V & P. V. Rama Raju

Wireless Personal Communications **110**, 873–891 (2020)

Abstract

The future communication system is a fifth generation (5G) wireless communication. This communication system requires an antenna with a simple design, low traffic (high channel capacity), high gain, low cost, low power consumption (high battery life) and easy to fabricate in MMIC. The rectangular patch antenna (RPA) is a simple design, low cost, low power consumption and easy to analyze and fabricate. However, it has been affected by narrow bandwidth and single resonating frequency. That means, it has low channel capacity (high traffic) and used for the single task. These problems have been overcome by modifying the RPA. Two parallel slots have been placed on the RPA then it seems like English letter E. This modified RPA or E-shaped patch antenna (ESPA) will have the impedance bandwidth (wideband) or get a multi resonating

Miniaturization of Strips loaded Hexagonal Microstrip Patch Antenna for Advanced Communication

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Miniaturization of Strips loaded Hexagonal Microstrip Patch Antenna for Advanced Communication

Ch Murali Krishna, P James Vijay, P Satya Sai, D Mounikeswari

Abstract*: A spiral fork shaped hexagonal micro strip patch antenna is designed to operate at different frequencies, which are in ultra-wide band range (3.1-10.6GHz). The newly presented antenna is simulated on a Flame Retardant - 4 (FR4) epoxy material with dielectric constant 4.4and overall size of structure is 28*28mm^2. Coplanar waveguide feeding (CPW) is used in this design for easy simulation. This proposed triband structure resonates at 1.36GHz, 5.74GHz and 8.8GHz. The proposed pentaband antenna resonates at 2.38GHz, 3.64GHz, 6.76GHz, 7.36GHz and 8.98GHz with corresponding impedance bandwidths are 200MHz, 70MHz, 170MHz, 520MHz and 420MHz. The peak gains at their resonant frequencies are 1.77dB, 2.45dB, 3.53dB, 4.54dB and 2.28dB respectively with good radiation characteristics. These antennas are suitable for S - , C - and X - band applications.

***Index Terms*: Spiral fork shaped antenna, CPW feed, UWB, Triband, Pentaband, Peak gain.**

I. INTRODUCTION

Wireless communication is one which transfers information between two or more points without any contacting medium from source to destination. It is easier to provide connectivity and accessing to the network from anywhere. Multiple top of dielectric substrate and ground plane on opposite or bottom side of it. MPA is operating at microwave frequencies. It has several advantages such as smaller in size, low profile, easy to fabricate, low cost and low spurious radiation [2]. Microstrip antennas are able to supporting number of frequency bands and support dual polarization types .These are resistant to shock and vibration. There are different irregular shape microstrip antennas are available such as rectangular [3], square [4], circular [5], triangular, modified triangular [6] and elliptical [7] etc.

The main aspect in the microstrip antenna design is impedance matching to transmit information. There are several impedance matching techniques such as transmission line feed, coaxial feed, inset feed, aperture coupled feed and proximity coupled feed methods [8-9]. Compared with these methods, Coplanar Waveguide feed has several advantageous like broad bandwidth, high gain and radiation pattern, circular polarization and good radiation efficiency [10-11].

In this paper, initially six sided microstrip antenna has been designed with CPW feeding. The UWB antenna design methodology and its working principles are explained in section II. Section III explains the triband antenna design. Section IV expresses the miniaturized pentaband antenna

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Metamaterial Inspired Gain Enhanced Elliptical Curved CPW fed Multiband Antenna for Medical and Wireless Communication Applications

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This article presents a novel elliptical curved coplanar waveguide fed antenna with defected ground. Electromagnetic coupling between splitring resonator (SRR) on other side to the substrate to CPW feeding line on the top side resulting the frequency notches in the wideband. The SRR shaped etched portion in the ground plane not only miniaturizing the antenna, but also providing good bandwidth in the operating bands. Antenna providing multiband characteristics forPCS, Bluetooth, LTE, ISM (Medical Application Band) and Wi-Fi communication (2-3.6 GHz), WLAN IEEE 802.11a/h/j/n (4.5-5.825 GHz), satellite system X-band downlink (7.5-9 GHz) and satellite communication applications at (12-16 GHz) & (17.5-18.5 GHz) respectively. This antenna offering quad band notching with penta band operation from 2-20 GHz. The size of the antenna is 40X44X1.6 mm with peak gain value of 7.18 dB with average efficiency parameter more than 68%. The manufactured antenna prototype is tested for validation and the obtained measurement matching with respect to the optimized simulation result.

Keywords: Coplanar Waveguide, Elliptical Curve, Metamaterial, Multiband Antenna.

Design of compact antennas with multiband characteristics and high gain is a challenging job to the antenna engineers. In this aspect, antennas with metamaterial loading providing advantages over traditional antennas with their high gain in compact size, high directivity and omni directional radiation pattern[1-3]. The metamaterials with negative permittivity and permeability can be used as phase compensator, which will help in design of subwavelength cavity resonators[4-5].

The parasitic structures of near field resonance can be obtained with meta-material loading in monopole antennas, but which may lead to narrow bandwidth. To improve the bandwidth, active devices can be used in the antenna structure and a negative permittivity transmission line in the radiating element also can be used[6-10]. Many printed antennas are designed and fabricated to obtain dual, triple, quad and penta band characteristics in the literature. Split ring resonators are used in the antenna structure to obtain meta-material properties. The SRR will help in the reduction of the antenna size and it also serves as filtering element[11-14].

This paper presents a novel elliptical curved coplanar waveguide fed antenna with SRR shaped defected ground structure. In addition, splitring resonator is placed at opposite surface to the CPW feed. The placement of SRR on the

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Wireless sensor data mining for e-commerce applications

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ABSTRACT

Information hiding is the most important criteria today in several sectors, due to security issues. Mostly for the security applications used in Finance & banking sectors, hiding the information about users and their transactions are necessary at present from the hackers in all high security zones. In this consequence biometrics is progressively considered as foundation component for an extensive array of personal authentication solutions, both at the national level (E.g. India UIDAI) and the smaller-scale (E.g. banking ATMs, school lunch payment systems). Biometric fraud is also an area of increasing concern, as the number of deployed biometric systems increases and fraudsters become aware of the potential to compromise them. Organizations are increasingly deploying process and technology solutions to stay one step ahead. At present Bankers are using different single Biometric Modalities for different services. All Biometric features are not suitable, for all services because of various artifacts while extracting features from the sensors due to background noise, lighting conditions, ease of access etc. This paper proposes a multi model system that will show a onetime single solution to meet all their security problems. This paper particularly handles how to incorporate cryptography and steganography in biometric applications.

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1. INTRODUCTION

To date, biometric technologies [1] have been most widely adopted by the Government/public sector, primarily for policing/security and border control/travel facilitation. Fingerprint recognition [2], Face recognition, eye recognition and voice recognition are different areas of biometrics technologies. Finger print recognition dominates due to low cost, high speed, high accuracy and dense data characteristics, apart from its use in background checking. Market size for Face recognition was USD 912 million in 2012 and is expected to touch USD 2.15 billion by 2018, primary reasons being adoption in e-Passport gates, and growth in mobile based applications for face recognition. Biometric information is very important and Facing Problem of security in todays. This is done by applying different cryptography algorithms and Stegaanography algorithms [2], [3] for avoiding information hacking.

1.1. Benefits of Using Biometrics in Banking

The benefits are,

a. Biometric technology provides the strongest method of authentication that protects banking information from being compromised by unauthorized personnel.

Optimal Tuning of PI Controllers for DFIG-Based Wind Energy System using Self-adaptive Differential Evolution Algorithm

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Abstract: The rapid infiltration of wind energy systems in the power system is causing huge power fluctuations due to varying wind speeds and fault occurrences. Here objective is to tune the Proportional Integral (PI) controller parameters. Formulation of objective function with Integral Square Error (ISE) concept is to minimize the errors of active power, terminal voltage and DC bus voltage. To tune these control parameters a Self-adaptive Differential Evolution (SaDE) approach is adopted. These optimized parameters are applied to a 9 MW wind generation system using Doubly-Fed Induction Generator's (DFIG) and compared this system with the actual system in MATLAB/Simulink. The results obtained here are found to be superior in terms of settling time, peak overshoot and undershoots, voltage profile.

Keywords: Vector control of DFIG, PI control parameters, Formulation of Objective function, Self - adaptive Differential Evolution, Fault analysis.

1. Introduction

Present fossil fuels supply major part of world's energy. There is a serious concern over use of fossil fuels, as they lead to global climate change. The usage of fossil fuels leads to serious environmental aspects. When these fuels were burnt, they emit carbon-dioxide (CO_2) which induces heat in atmosphere leads to global warming. Over the last few years, there has been a strong penetration of renewable energy resources into the power network. Wind generation has played and will continue to play an important role in smart grid for coming years. Wind energy is popular because of the advantages like pollution free, less space for installation, price stability, job creation, etc[1]. The potential of wind energy is very higher than what the entire human needs. To gear the critical challenges, major efforts are taking in this area in various levels of research works.

DFIG's are mostly used in wind energy system rather than Squirrel-cage induction generator, Wound-rotor induction generator and Permanent magnet synchronous generator because of various advantages like active and reactive power controllability, low converter size, less mechanical stress, smooth grid connection, lower losses and compact size[2]. DFIG operates in both Sub-synchronous and Super-synchronous generating modes, which varies according to the wind speed[3]. In wind power systems the DFIG's stator is directly connects to grid and rotor is connected to grid through the back to back converters with IGBT based Pulse Width Modulation converters. The converters are controlled by using Rotor Side Controller (RSC) and Grid Side Controller (GSC) and DC link capacitor is placed between the converters which are shown in Figure 1. The controller controls the RSC and GSC converters to gain optimal power control and stability of power system. Independent active and reactive power control is achieved using Vector Control of DFIG[4]. Vector control of DFIG operates with two PI controllers in power control loop and two PI controllers in reactive power control loop.

Many nonlinear control techniques like sliding mode control[5], Feedback linearization control[6], decentralized non-linear control[7], etc. are proposed in the literature. But the design of these controls is complex and there is no evidence of implementation in practice. Therefore

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RESEARCH ARTICLE - ELECTRICAL ENGINEERING

A Three-phase Nine-level Fault Tolerant Asymmetrical Inverter

Santosh Kumar Maddugari[1] · Vijay B Borghate[1] · Raghavendra Reddy Karasani[2,3] · Sidharth Sabyasachi[1] · Hiralal M Suryawanshi[1]

Received: 24 May 2017 / Accepted: 4 February 2018

Abstract
The reliability in inverters has gained a vast importance for their enhanced economic operation of the system. This paper proposes a three-phase reliable nine-level inverter with fault ride through capability. The proposed inverter synthesizes nine levels in the output with two asymmetrical voltage sources configured at a ratio of 1:3 under healthy operation. The inverter is analyzed for open circuit faults in switches. A reliability analysis is carried out for proposed inverter and compared with classical Cascaded-H Bridge. Combined control logic is implemented to control the inverter in accordance with the operating conditions. The circuit is operated with sinusoidal pulse width modulation under healthy condition, and it is made to operate with switching frequency optimal-based pulse width modulation (SFO-PWM) under fault cases, as it enhances fundamental DC value. The proposed inverter is simulated in MATLAB/SIMULINK, and the results are validated by an experimental setup.

Keywords Fault tolerant · Multilevel inverter · Reliability

1 Introduction

The concept of synthesizing the desired output voltage by multiple step changes enabled with the help of multiple DC voltage sources is called multilevel inverter. Multilevel inverter has been evolved by synthesizing a three-level output, which has lower total harmonic distortion (THD) as compared to two-level output voltage. The THD is reduced further by proposing various multilevel topologies with increased number of levels. The three fundamental multilevel inverter topologies are: flying capacitor inverter (FCI) [1], diode clamped inverter (DCI) [2] and CHB [3]. CHB is very popular for its modular structure with isolated DC sources and ease in scaling the voltage levels; therefore, many configurations are derived by modifying it [4]. In DCI, multiple capacitors are stacked across a DC voltage source and the neutral points are clamped with the help of diodes. This eliminates the requirement of multiple isolated DC sources, but the balance of charge in the capacitors is an issue of concern. Though, various control schemes are proposed [5,6] for enabling the balance of charge in DCI, increase in number of levels increases the complexity of the circuit. FCI eliminates the use of clamping diodes with series connection of capacitors. Yet, the problem of balancing the capacitors persists and is the major disadvantage of FCI. An extensive work on new topologies of multilevel inverter was carried out in the past decade for increasing the number of voltage levels with reduced number of power electronic switches [7–12]. But, the concept of reducing the power electronic switches highly affected the reliability of the inverter [23].

Reliability is a measure of consistency by which an inverter is able to supply power to the load. So, the concept of fault tolerant inverters has emerged as a focus of research.

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Voltage and Frequency control of Distribution Generation Unit in an Island Mode Microgrid Using Differential Evolution.

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Abstract:
This article presents the best possible power control approach for an inverter on the basis of Distributed Generation (DG) component, in an islanded mode Microgrid on the basis of real-time self-tuning technique. This research seeks to enhance the power supplied by DG units coupled to the main grid, controlling the Voltage and frequency (VF),dynamic response, and harmonic distortion are the main performance parameters measured ,when the Microgrid is autonomous or in the load changing state. The controller system consists of an internal current control loop and an external power control loop on the basis of a synchronous reference frame additionally Proportional-Integral (PI) controllers. The power controller is configured for voltage-frequency (Vf) power control mode. Particle Swarm Optimization (PSO) and Differential Evaluation (DE) is an intellectual searching algorithm that is used for real-time self-tuning for the power control parameters. Herein, the DG unit execute the'Vf' control mode to control the system voltage as well as frequency. The simulation results prove that the proposed"Vf" controller offer an outstanding response to gratify the power quality obligation and compare the validity of the PSO and DE proposed approach.

Keywords*—Microgrid, Island mode, the Power ('Vf') controller, the Current controller, Particle Swarm Optimization (PSO) and Differential Evolution (DE).*

I. INTRODUCTION.

A microgrid is a group of DG units that connected with an electrical distribution system utilizing power electronic appliances like the Voltage Source Inverter (VSI).It represents an Interchangeable infrastructure to the main grid because of the abrupt increase in load demand. The Microgrid be able to operate in 'TWO' modes: namely: grid-connected and Autonomous modes. Furthermore, the micro-sources like wind, photovoltaic, hydro, fuel cell emerges as alternatives which offer green power as well as a flexible extension to the Main grid[1].Even though, these sources are habitually interconnected by extensively used Pulse-Width-Modulation(PWM)-VSI systems, which contain nonlinear V-I characteristics of semiconductor components, generate high switching frequency, these two influence the quality of power supply for the end consumer**[**2].

Fig.1 is an illustration of the Microgrid.A vigorous control approach is necessary to accomplish the high-performance operation and to meet power quality necessities, permitting DG units to be associated to the grid. Hence, the current control approach in the PWM-VSI system is a most significant aspect of contemporary electronic power converters. Here two fundamental kinds of current controllers: nonlinear**,** on the basis of closed loop current type PWM; as well as linear, on the basis of the open loop voltage type PWM, and both are connected using the inner current feedback loop[3].

In a 3-phase grid-connected VSI system, nonlinear controller, hysteresis current control (HCC) is frequently used. The HCC offsets the current error and also generates PWM signals with a tolerable dynamic response**.** the current is controlled individually with a control delay, and cannot produce zero voltage vector, ensuing in a large current ripple with high total harmonic distortion (THD)[4].The linear current controller**,** on the basis of space vector PWM (SVPWM) is a controller**,** which offsets the current error either by the proportional-integral(PI**)** controller or predictive control algorithm whereas the compensation as well as PWM generation can be performed independently. It produces an outstanding low current ripple, and a high-quality sinusoidal waveform, steady-state response. The SVPWM have the capacity to enhance the controller behavior since it has positive features like optimum switching pattern, outstanding DC-link voltage utilization, and constant switching frequency [5].

In recent times, researchers have a look into **'**Vf' controllers on the basis of an internal current control loop for advanced Microgrid structure**.** In[6], the authors used a controller to make sure the system's dynamic stability and presented all information need for analysis and design. In [7], the power control approach is connected to a Microgrid system and compares two power control methods, considering the dynamic performance as well as load sharing distribution system. But the process requires automatic control parameter adjusting to optimize during sudden changes.

Numerous techniques comprise emerged to deal with an optimization and nonlinear difficulties. These are classified on the basis of the nature of search space as well as objective function. First and foremost, is the ***Linear Programming*** (LP) employs just the linear objective function as well as linear equality or inequality constraints restrictions. The second one is, the ***Nonlinear Programming*** (NLP) uses nonlinearity objective function as well as restrictions, but researchers have noticed that, valuable results are only attained when all restrictions are linear, and hence it is to as Linearly Constrained Optimization. Third one is, Stochastic Programming also called ***Dynamic Programming*** (DP), is a new technique that uses probability functions of variables to resolve difficulties involving ambiguity. This technique is an extensively used for optimization problems, the numerical results needs a new computational method which enhances the probability of suboptimal results due to the dimensionality difficulty. In [8], PSO algorithm was developed for 'VF' parameters are optimized in an autonomous mode. In [8],

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Impacts of Renewable Energy Generation on Smart Distribution Networks

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Abstract: ***As the integrations of renewable energy generation (REG) within smart distribution networks (SDN) increasing, power flow algorithms (PFAs) of SDN needs special treatment to handle multiple REG. In this paper, the development of PFA is described. According to the control and characteristics of output power (OP), REG can be specified as constant-power-factor (CPF) model and constant-voltage (CV) model. In this paper, these two models are integrated into the proposed PFA. This PFA is capable of switching the REG mode of operation from one model to other with the existence of multiple REGs. The influence of REG on voltage profile and power loss on 15-bus and 69-bus distribution networks (DN) is analyzed with several case studies. And the results are quite promising and are in agreements with the literature.***

Keywords: Voltage stability index, Power-flow, Renewable energy generation, Smart distribution network.

I. INTRODUCTION

With the development of REG, distributed-generation (DG), micro-grid and electric-vehicles etc., turns traditional DN into the direction of user interaction, the trend of two-way flow, and highly automated. And these changes gradually formed the SDN system architecture. DN is of radial structure and is of low X/R ratio. Because of this, the traditional PFAs are ill-conditioned to DN. A modified version of conventional PFA is proposed in [1].PFA proposed in [2] includes a well-defined data-structure and efficient topology-processors. PFA for weakly-meshed DN based on compensation method is employed in [3]. A PFA called forward/backward sweeping technique is proposed in [4] it completely exploits the radial nature of DN. In [5] proposed a PFA based on summation of powers. In [6] presented a direct-solution method for solving DN. In [7] proposed an algorithm to form dynamic-data-structure (DDS) to take the advantage of radial nature in DN and is used as topology processor in PFA. In [8] proposed a PFA for real-time DN and it gives some initial discussions on a PV node concept in power flow. Optimal placement and sizing of DG in DN is presented in [9].

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II. SCHEME FOR DIVIDING THE NETWORK IN TO SECTIONS

After the numbering of buses and numbering of branches are done as mentioned in [4], then a scheme is to be developed to divide the DN in to different sections as shown in Fig.1 for the given sample RDN.

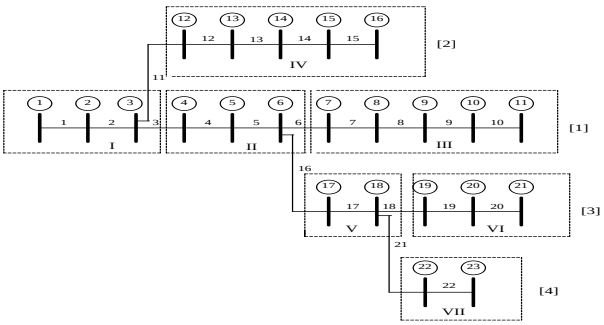


Fig. 1 Created sections for the sample RDN

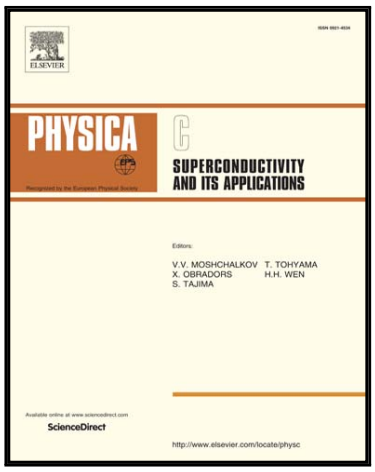
Starting with bus-1 in lateral-1 and then consecutively considering buses until it finds the one which has more than one branch leaving from it and is labeled as section-I. It is observed that at bus-3, two branches are leaving. So that section-I is formed with buses from 1 to 3. Then start proceeding from bus-4 until it finds the one which has more than one branch leaving from it and it is labeled as section-II. Therefore section-II has buses from 4 to 6. Likewise the section-III created with buses from 7 to 11 in it. Once all buses in lateral-1 are over then continue the same scheme for all other laterals. After the entire DN is divided into sections one can have the following information as in Table-I.

II. MODELING OF REG

Based on the performance characteristics and control strategies on OP, the REG can be modeled as CPF model for small generation and CV model for large generation. The first model can be taken as PQ model in the PFAs, and the later model is taken as PV model in the PFAs.

III. POWER FLOW METHODOLOGY WITH REG

The power flow methodology (PFM) is explained with the Fig. 2, which is a piece taken from the RND given in Fig. 1.It consists of last three sections (V, VI & VII). The Fig. 2 is drawn with showing the impedances of the branches and current flows in the lines and load currents. The detailed iterative procedure for PFM is explained as follows,



Design and simulation of resistive type SFCL in multi-area power system for enhancing the transient stability

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Identification of Linear and Non Linear Curve Fitting Models using Particle Swarm Optimization Algorithm

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Abstract. Identification of approximate model of the physical systems can be achieved by fitting the data. In this paper particle swarm optimization algorithm (PSO) is used for linear and polynomial curve fittings. Data generated from the known models and curve fitting is done by PSO using reverse engineering mechanism at the initial stage. In this process of curve fitting, two types of inertia mechanisms are used in PSO for getting better results. Later, real time financial series forecasting is considered for validating the PSO estimated regression models. Results shows the dynamic inertia weight strategy based PSO yields better fitting and avoids additional decisions on control parameters.

INTRODUCTION

Identification of approximate model of the physical systems can be achieved by fitting the data [1]-[2]. For best fit of data points by a suitable mathematical function, several approaches are presented [1]-[10]. Various areas where the data fit to obtain mathematical model of physical system is required for operation and future maintenance are illustrated below.

Data fitting is extensively used for determination of B-spline parameters [3]-[5]. Particle swarm optimization (PSO) is used for data fitting with free knot B-spline in [3]. PSO computed automatically an appropriate location of knots with satisfactory results at the end. Later a hybrid algorithm is used in similar fashion for curve fitting in manufacturing industry. For this curve fitting, genetic algorithm (GA) along with PSO is considered [4]. Along with PSO, other optimization techniques such as Firefly algorithm are able to fit the data in B-spline curve fitting [5]. Apart from mechanical stream, this curve fitting concept is used extensively in communication engineering [6]. By varying the geometrical parameters of the antenna, an appropriate curve fitting model is obtained using PSO in [6] to improve the bandwidth. A hybrid method is introduced by using differential evolution (DE) and ant colony optimization (ACO) algorithms for antenna design to further improve the bandwidth in wide area communications [7]. Electrical engineering is one where the curve fitting is popularly used for forecasting and prediction of renewable sources and electrical load [8]. In [8], GA, PSO and DE are applied for getting appropriate wind curve modeling under wide operating conditions with several data sets. Later parametric and nonparametric methods are introduced for wind power curve fitting [9]. Recently financial time series forecasting is achieved by fitting the data even the financial variable is more volatile in nature [10]. Mostly search based techniques are used for identification of curves/functions of unknown models irrespective of stream.

As swarm intelligent techniques are more suitable for getting optimal results for the data where the system models are unknown, PSO is applied for getting unknown mathematical models using curve fitting. In this paper, linear and non linear regression models are developed by PSO by generating suitable data sets and later extended the method for financial series forecasting in the similar way.

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(57) Abstract :

IAA-Predictive: INTELLIGENT AIRCRAFT ACCIDENTS PREDICTIVE ANALYTICS USING ML-PROGRAMMING.

ABSTRACT My InventionIAA-Predictive• is Despite pilot training and current safety systems, aircraft accidents continue to occur. It is recognized herein that existing approaches to preventing aircraft accidents lack capabilities. A predictive aircraft recovery control unit can receive flight data from the plurality of data nodes. The flight data can be indicative of at least a speed of the aircraft and a position of the aircraft. In some cases, based on the flight data, the predictive aircraft recovery control unit can determine that the aircraft will enter a stall condition. Furthermore, based on the flight data, the predictive aircraft recovery control unit can determine a time period that will elapse before the aircraft enters the stall condition. In response to determining that the aircraft will enter the stall condition after the time period elapses, the predictive aircraft recovery control until can trigger a recovery sequence before the aircraft enters the stall condition. All prediction controlled by ML-Programming.

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6. Area of Research	: MACHINE LEARING
7. Topic of Research	: GENERATIVE ADVERSARIAL NETWORKS
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