



DEFENCE RESEARCH & DEVELOPMENT ORGANISATION (DRDO)
GOVT. OF INDIA – MINISTRY OF DEFENCE

DEFENCE ELECTRONICS APPLICATIONS LABORATORY
Raipur Road, Dehradun – 248001
Phone: 0135-2787256, Fax: 0135-2787256

Dated: 26th May, 2017

CERTIFICATE

This is to certify that **Mr. Deepak Kumar**, a student of **Master of Technology (Microwave Electronics)** from **Department of Electronic Science, University of Delhi South Campus (UDSC)** under class **Roll No. 3663** for the session 2015-2017, has completed the **Dissertation** entitled **"Design of 100 Watt Ku-band Power Amplifier"** as an M. Tech. trainee at **Defence Electronics Applications Laboratory (DEAL), DRDO, Dehradun**, during the period 28th Dec 2016 to 26th May 2017. The Dissertation work has been completed under the supervision of **Sh. Rajendra Singh, Scientist-'F'**.

He has done an excellent job and was sincere during his training. He was always enthusiastic to learn, implement and solving problem at hand.



Ashok Kumar, Sc-G
Group Director
Millimeter Wave Systems Gp.
DEAL, DRDO

भारत सरकार
अंतरिक्ष विभाग
अंतरिक्ष उपयोग केन्द्र
आंबावाडी विस्तार डाक घर,
अहमदाबाद-380 015. (भारत)

दूरभाष : +91-79-26913050, 26913060

साईट : www.sac.isro.gov.in/www.sac.gov.in



Government of India
Department of Space
SPACE APPLICATIONS CENTRE
Ambawadi Vistar P.O.
Ahmedabad - 380 015. (INDIA)
Telephone : +91-79-26913050, 26913060
website : www.sac.isro.gov.in/www.sac.gov.in

May 25, 2017

CERTIFICATE OF PRACTICAL TRAINING


Name of the student : SAGAR SINGHAL
Name of the institution : UNIVERSITY OF DELHI, SOUTH CAMPUS
NEW DELHI
Period of training : 02/01/2017 to 25/05/2017
Name of the division
where training was taken : MSAD/ASG

DETAILS OF TRAINING

"DESIGN AND DEVELOPMENT OF X BAND DUAL POLARIZED
WIDEBAND MULTILAYER APERTURE COUPLED MICROSTRIP
PATCH ARRAY ANTENNA"

PROFICIENCY SHOWN BY THE CANDIDATE

Attendance : REGULAR
Conduct : VERY GOOD
Practical ability : He has good proficiency in HFSS. He is sincere and
hardworking.


(J RAVISANKAR)
HEAD, HRDD

भारत सरकार
अंतरिक्ष विभाग
अंतरिक्ष उपयोग केन्द्र
आंबावाडी विस्तार डाक घर,
अहमदाबाद-380 015. (भारत)
दूरभाष : +91-79-26913050, 26913060
वेबसाईट : www.sac.isro.gov.in/www.sac.gov.in



Government of India
Department of Space
SPACE APPLICATIONS CENTRE
Ambawadi Vistar P.O.
Ahmedabad - 380 015. (INDIA)
Telephone : +91-79-26913050, 26913060
website : www.sac.isro.gov.in/www.sac.gov.in

May 25, 2017

CERTIFICATE OF PRACTICAL TRAINING


Name of the student : JATIN SINGH GAUTAM
Name of the institution : UNIVERSITY OF DELHI, SOUTH CAMPUS
Period of training : 04/01/2017 to 25/05/2017
Name of the division
where training was taken : LMDD/MEG/ESSA

DETAILS OF TRAINING

"DESIGN AND CHARACTERIZATION OF LEAKY SURFACE ACOUSTIC
WAVE(SAW) RESONATOR"

PROFICIENCY SHOWN BY THE CANDIDATE

Attendance : REGULAR
Conduct : VERY GOOD
Practical ability : He has good proficiency in Matlab. He is sincere
and hardworking.


(J RAVISANKAR)
HEAD, HRDD

DEPARTMENT OF ELECTRONIC SCIENCE

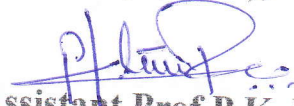
University of Delhi South Campus

Benito Juarez road, New Delhi 110021, India



CERTIFICATE

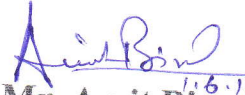
This is to certify that **Ms. Akanksha Varun**, M. Tech.IV Semester student of Department of Electronics Science, University of Delhi South Campus has successfully completed his project work entitled "**Design Ku-band Power Amplifier MMIC**" for the partial fulfillment of his Master's degree (M. Tech) in Microwave Electronics from the Department of Electronic Science, University of Delhi South Campus, New Delhi at Solid State Physics Laboratory (SSPL), Delhi from 26th December 2016 to 26th May 2017.


Assistant Prof. P.K. Rao

(Internal Project Guide)

Dept. of Electronic Science

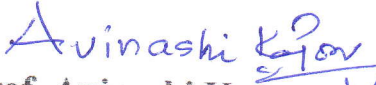
UDSC, New Delhi


Mr. Amit Birwal

(Project Coordinator)

Dept. of Electronic Science

UDSC, New Delhi


Prof. Avinashi Kapoor 1-6-17

Head of Department

Dept. of Electronic Science

UDSC, New Delhi



DEFENCE RESEARCH & DEVELOPMENT ORGANISATION (DRDO)
GOVT. OF INDIA – MINISTRY OF DEFENCE


DEFENCE ELECTRONICS APPLICATIONS LABORATORY
Raipur Road, Dehradun – 248001
Phone: 0135-2787256, Fax: 0135-2787256

Dated: 26th May, 2017

CERTIFICATE

This is to certify that **Mr. Dharmendra Kumar**, a student of **Master of Technology (Microwave Electronics)** from **Department of Electronic Science, University of Delhi South Campus (UDSC)** under class **Roll No. 3664** for the session 2015-2017, has completed the **Dissertation** entitled "**Ku-band Low Noise Amplifier Design**" as an M. Tech. trainee at **Defence Electronics Applications Laboratory (DEAL), DRDO, Dehradun**, during the period 28th Dec 2016 to 26th May 2017. The Dissertation work has been completed under the supervision of **Sh. Rajendra Singh**, Scientist-'F'.

He has done an excellent job and was sincere during his training. He was always enthusiastic to learn, implement and solving problem at hand.

for 

Ashok Kumar, Sc-G
Group Director
Millimeter Wave Systems Gp.
DEAL, DRDO



सी.एस.आई.आर राष्ट्रीय भौतिक प्रयोगशाला
CSIR-NATIONAL PHYSICAL LABORATORY
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद)
(Council of scientific & Industrial Research)
डॉ. के.एस.कृष्णन मार्ग, नई दिल्ली 110012, (भारत)
Dr.K.s. Krishnan Marg, New Delhi-110012, (INDIA)



CERTIFICATE

It is certified that the project report entitled “**DESIGN AND CHARACTERIZATION OF SUPERCONDUCTING PATCH ANTENNA**” is submitted by **Subhash Chandra Chaudhary** for the partial fulfillments of the requirement of degree “**Master of Technology in Microwave Electronics Engineering**” is bonafide dissertation work carried out under the supervision of undersigned scientist in Time and Frequency and Electrical and Electronics and Metrology Division at **CSIR-National Physical Laboratory New Delhi** from **26th December 2016 to 26th May 2017**.

This is original project carried out at NPL New Delhi and to the best of our knowledge this work has not been submitted anywhere else for any other Degree or Diploma. We wish his good luck for all his future enduovers.

NATIONAL PHYSICAL LABORATORY
(HRD GROUP)

Endorsement No. 3106-A/14a/H

Ms. Sandhya Malikan Patel

Scientist (External guide)

Dr. K. S. Scientist

Time and frequency and electrical and
Electronic metrology division

डॉ. आर.पी. पन्त / Dr. R.P. PANT
मुख्य वैज्ञानिक एवं प्रमुख एच आर.डी. ग्रुप
Chief Scientist & Head, HRD Group
सी एस आई आर-राष्ट्रीय भौतिक प्रयोगशाला
CSIR - National Physical Laboratory
डॉ. के.एस.कृष्णन मार्ग, नई दिल्ली-12
Dr. K.S. Krishnan Marg, New Delhi-12

BHARAT ELECTRONICS

BHARAT ELECTRONICS

A GOVT. OF INDIA (MINISTRY OF DEFENCE) ENTERPRISE
BHARAT NAGAR P.O. GHAZIABAD-201010. (U.P.)

HUMAN RESOURCE DEVELOPMENT DEPARTMENT

TRAINING CERTIFICATE

This is to certify that Mr. / Ms. ANIL KUMAR (UPI/1330 /GAD/2017)

Pursuing M.TECH from DELHI UNIVERSITY SOUTH CAMPUS

has undergone unpaid practical training during the period from 4/01/2017 to 26/05/17
in our organization.

The project undertaken by him/her was 600 WATT TRANSMITTER FOR TRANSPONDER TFF.

His /her performance during the training was EXCELLENT

DATE: 30/05/2017

FOR BHARAT ELECTRONICS LTD.


प्रभात व्यस
Prabhat Vyas

MANAGERS (HRD) / गा.बाद
Manager (HRD/GAD)



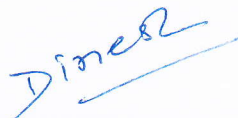
भारत सरकार - रक्षा मंत्रालय
Govt of India - Ministry of Defence
रक्षा इलेक्ट्रॉनिकी प्रयोज्यता प्रयोगशाला
Defence Electronics Applications Laboratory
पोस्ट बॉक्स सं० 6, रायपुर रोड
PO Box No. 6, Raipur Road
देहरादून - 248001
Dehradun - 248001


Dated : 29th May 2017

CERTIFICATE

Certified that the report titled "**DESIGN OF X- BAND LOW NOISE AMPLIFIER**" is a bonafide record of the training work carried out by Mr. **Chitransh Srivastava** towards partial fulfilment of the requirements for his Master's Degree (M. Tech.) in Microwave Electronics from the department of Electronics Science University of Delhi South Campus, New Delhi.

The work was carried out from 28th December 2016 to 28th MAY 2017 at Defence Electronics Applications Laboratory (DEAL) and was successfully completed under the guidance of **Shri Dinesh Dwivedi, Scientist-D**.


(Dinesh Dwivedi)
Scientist-D


(Umesh Bahuguna)
Scientist-F
Microwave Systems Group

इलेक्ट्रॉनिक्स तथा रेडार विकास
स्थापना

भारत सरकार, रक्षा मंत्रालय
रक्षा अनुसंधान तथा विकास संगठन
डी आर डी ओ कॉम्प्लेक्स, सी वी रामन नगर
बैंगलूर - 560 093, भारत



LRDE

ISO 9001:2008 Establishment

Electronics & Radar Development
Establishment

Govt. of India, Ministry of Defence
Defence Research and
Development Organisation
DRDO Complex, C V Raman Nagar
Bangalore - 560 093, India

CERTIFICATE

This is to certify that the project work entitled

**“DESIGN AND DEVELOPMENT
OF
WAVEGUIDE ORTHO-MODE TRANSDUCER (OMT) IN KU-
BAND FOR SPACE APPLICATION ”**

is a bonafide work successfully completed by

AMLESH KUMAR SINGH

Student of **M. TECH. (Microwave Electronics)**, **DEPARTMENT OF ELECTRONIC SCIENCE, UNIVERSITY OF DELHI SOUTH CAMPUS** under my supervision and guidance at 'RAMD' division of **ELECTRONICS AND RADAR DEVELOPMENT ESTABLISHMENT (LRDE)**, Bangalore, during the period **6th Jan 2017 to 26th may 2017**, as a part of the award of Master degree in Microwave Electronics from **UNIVERSITY OF DELHI SOUTH CAMPUS , NEW DELHI-110021** during the academic year **2016-2017**.


RAVI KUMAR SAMMINGA

Scientist 'E'

RAMD, LRDE

LRDE



Your Source for R/F And Microwave Components

2460 West Ray Road, Ste 2, Chandler, Arizona 85224, USA

Tel: 480-890-1612 Fax: 480-890-2150

Email: sales@mesamicrowave.com

Web: www.mesamicrowave.com

Certificate of Training

Presented to

Mr. Chandresh Pandey

For

Completion of development project "Waveguide Bandpass filter using iris inductive window coupled structure"

Date: 29th May, 2017

We hereby certify that **Mr. Chandresh Pandey**, M. Tech. IV Semester student of Department of Electronics Science, University of Delhi South Campus has successfully completed his project work entitled "Waveguide Bandpass filter using iris inductive window coupled structure" for the partial fulfillment of his Master's degree (M. Tech) in Microwave Electronics from the Department of Electronic Science, University of Delhi South Campus, New Delhi at Mesa Microwave Corporation for environmental monitoring and remote control, Dehradun from 31st December 2016 to 26th May 2017.

This is to certify that the referenced above Waveguide Bandpass filter is manufactured tested and or inspected in accordance with the requirement of the applicable specifications. Documentary Evidence in the form of test and/ or inspection reports is available upon request.

LORI COFEE

(Authorized Signatory)

Approved by: M.R.

Rev. Cage Code: 6LBG8

Lori Coffee



अन्तर-विश्वविद्यालय त्वरक केन्द्र
INTER-UNIVERSITY ACCELERATOR CENTRE
(Formerly Nuclear Science Centre)
(विश्वविद्यालय अनुदान आयोग का स्वायत्त केन्द्र)
(An Autonomous Centre of UGC)

Dated: 31/07/2017

Summer Training Certificate

This is to certify that, Mr. Lokesh Joshi, student of M.Sc. (Electronics), University of Delhi has successfully completed his 2 months (from May 22, 2017 to July 22, 2017) summer internship

The project was undertaken by him in BTS Lab, IUAC where he worked on "Development and testing of Web based Data Logger for MHB control electronics" as an application of IoT for Accelerators.

His conduct during the training period was good. We wish him success in future.

Ashish Sharma

Mr. Ashish Sharma
Engineer

Dr. P. Sugathan

Dr. P. Sugathan
Programme Coordinator

डा. पी. सुगथन / Dr. P. Sugathan
Scientist H

Research Coordinator
अन्तर-विश्वविद्यालय त्वरक केन्द्र
Inter-University Accelerator Centre
Aruna Asaf Ali Marg, New Delhi-110 067
p.sugathan@iuac.res.in

पोस्ट बॉक्स: 10502 अरुणा आसफ अली मार्ग,
Post Box No. 10502, Aruna Asaf Ali Marg,
नई दिल्ली - 110 067 (भारत)
New Delhi- 110 067 (India)

दूरभाष : /Telephone : 011-26893955
011-26892601
तार : /Telegram : NURCEN
फैक्स : /Fax : 011-26893666
वेबसाइट : /Website : www.iuac.res.in

Scanned by CamScanner

Scanned by CamScanner

25th July, 2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Rahul Soni**, a student of Department of Electronic Science, University of Delhi, South Campus has successfully completed 2 (two) months training at EVI Technologies Private Limited a company incubated at Electropreneur Park.

The period for his training as per our records was from May 22, 2017 to July 20, 2017.

During the period of his training programme with us he was found punctual, hard-working and inquisitive.

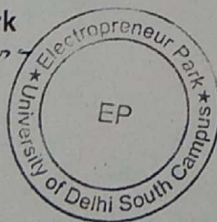
He assisted the technical team of EVI Technologies Private Limited in their project VCube EV charger system designed with major contribution under power sensing and feedback circuitry. Further, he developed a standalone android application for VCube operation which was successfully tested.

During his training he was not paid any stipend nor any stipend is due to be paid to him by Electropreneur Park.

We wish him all the success in his future pursuits.

For Electropreneur Park

Authorized Signatory





Defence Institute of Physiology and Allied Sciences

रक्षा शारीरक्रिया एवं संबंधित विज्ञान संस्थान

(An ISO 9001 : 2000 Certified Institute)

Govt. of India, Ministry of Defence, Defence Research & Development Organization
भारत सरकार रक्षा मंत्रालय रक्षा अनुसंधान एवं विकास संगठन
Lucknow Road, Timarpur, Delhi - 110 054
लखनऊ रोड, तिमारपुर दिल्ली - 110 054

Certificate

This is to certify that **Mr. PRABHAT PRAJAPATI** student of **M.Sc. ELECTRONICS , UNIVERSITY OF DELHI, SOUTH CAMPUS, DELHI-110021** have undergone summer training from 22th May 2017 to 20th July 2017 in Biomedical Instrumentation Division on **“SIMULATION AND PCB IMPLEMENTATION OF LOW LEVEL LIGHT THERAPY DEVICES”**.

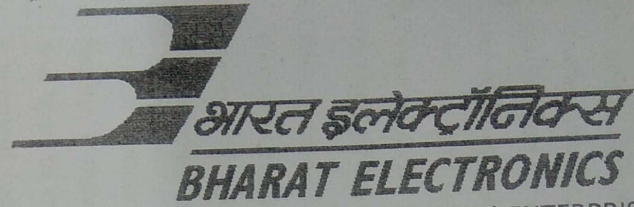
(Dr. Shweta Rawat)
Sc 'D'
HRD Coordinator

Director : 91-11-23914774

Office : 91-11-23883111

FAX No : 91-11-23932869 E-mail : hrddipas@yahoo.com

DIPAS..... *In pursuit of excellence in military Physiology*



A GOVT. OF INDIA (MINISTRY OF DEFENCE) ENTERPRISE
BHARAT NAGAR P.O. GHAZIABAD-201010. (U.P.)

HUMAN RESOURCE DEVELOPMENT DEPARTMENT

TRAINING CERTIFICATE

This is to certify that Mr. / Ms. Km. AKSHA (HRD/UPT/374/MSC)

Pursuing MSC Electronics from University of Delhi South Campus (UDSC)

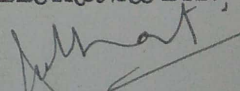
has undergone unpaid practical training during the period from 22nd May - 2017 to 20th July - 2017
in our organization.

The project undertaken by him/her was "Rohini Radar"

His /her performance during the training was Excellent

Date: 20th July - 2017

For BHARAT ELECTRONICS LTD.,


MANAGER (HRD)
प्रभात व्यास
Prabhat Vyas
प्रबन्धक (मा.स.वि./गा.बाद)
Manager (HRD/GAD)

ADA

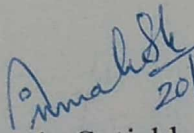
AERONAUTICAL DEVELOPMENT AGENCY

Campus II
Technology Directorate of Avionics & Weapon Systems
(Ministry of Defence, Govt. of India)
Suranjandas Road, New Thippasandra Post, Bangalore - 75, India

Date: 20/07/2017

To,
Whomsoever concerned

I hereby certify that Pallavi T. has completed her summer training at our organization Aeronautical Development Agency (ADA) for a period of 2 months from 24-05-2017 to 20-07-2017. During this period, she has completed a project titled 'Analysis of LCA Flight Data using MATLAB' under my guidance.


20/7/17

Nirmala Satishkumar
Sc/Engr 'F'
Aeronautical Development Agency (ADA)



ISO 9001:2008 Certified

सोसावस्था भौतिकी प्रयोगशाला, दिल्ली
Solid State Physics Laboratory, Delhi



(Min. of Defence, DRDO)

Lucknow Road, Timar Pur, Delhi-110054

प्रशिक्षण प्रमाणपत्र / TRAINING CERTIFICATE

File No. 1805/87/HR/SSPL/17
Dated 26/07/2017

This is to certify that Mr./Ms./ ASMITA DEEP

Student of DEPT. OF ELECTRONIC SCIENCE, SOUTH CAMPUS(D.U.) Roll No. 3704

Branch M.Sc ELECTRONICS has completed successfully Summer/~~Winter~~ Internship
for the period from 22/05/2017 to 24/07/2017 Duration TWO (2) weeks/months.

Topic of Internship was DESIGN OF A GaN-HEMT BASED POWER
AMPLIFIER USING HYBRID MIC TECHNOLOGY

During the training period his/her conduct at SSPL was good.



(Dr. Chandra Prakash)

Group Director (Admin, HR & Tech Coord)

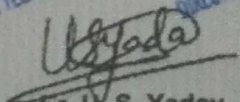
Certificate of Training

This is to certify that Mr. / Ms. SOMISHANG JAGOI
of DOES SOUTH CAMPUS, UNIVERSITY OF DELHI
has undergone Summer Training Program'17
in EMBEDDED SYSTEM

from 22/05/2017 to 20/07/2017

Mr. Vishal Singh
Training Coordinator

For UVSOFTS TECHNOLOGIES PRIVATE LIMITED
DIRECTOR


Er. U. S. Yadav
Director

UVSofts Technologies Pvt. Ltd.



सेन्ट्रल इलेक्ट्रॉनिक्स लिमिटेड
Central Electronics Limited

Web Site : www.celindia.co.in
E-mail : cel@celsoiar.com
Fax : 0120-2895148

Phone Nos. :

भारत सरकार का उद्यम
(A GOVERNMENT OF INDIA ENTERPRISE)

4, औद्योगिक क्षेत्र, साहिबबाद - 201010 (यूपी)
4, Industrial Area, Sahibabad - 201010 (U.P.)

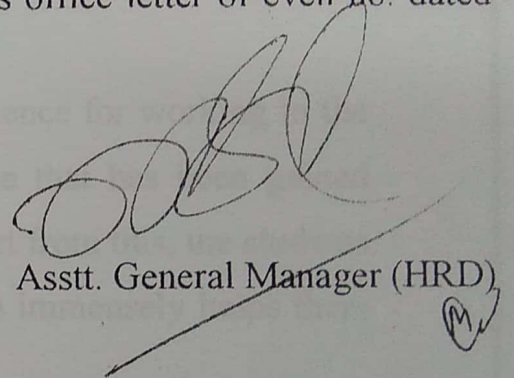
0120-2895143

No.C-5 (b)/II-76/18

Dated: 20/07/2017

To Whomsoever It May Concern

This is to certify that Ms. Sandhya D/o Shri Padam Singh a student of M.Sc. (Electronics Science), Department of Electronics Science, UDSC, New Delhi, Roll/Enrl. No. KC-1127/2013 has undergone summer/ industrial training (unpaid) from (22/05/2017) to (20/07/2017) in the Company, as per this office letter of even no. dated 22/05/2017.


Asstt. General Manager (HRD)

पंजीकृत कार्यालय : 781, देशबन्धू गुप्ता रोड, नई दिल्ली-110005 दूरभाष: 011-23526836, 23549336
Regd. Office : 781, Desh Bandhu Gupta Road, Karol Bagh, New Delhi - 110 005 Ph.: 011-23526836, 23549336
क्षेत्रीय कार्यालय : 51, सी एम एच रोड, पहली मंजिल, इंदिरा नगर, बेंगलुरु-560038 दूरभाष: 080-252 51740



अन्तर-विश्वविद्यालय त्वरक केन्द्र
INTER-UNIVERSITY ACCELERATOR CENTRE
(Formerly Nuclear Science Centre)
(विश्वविद्यालय अनुदान आयोग का स्वायत्त केन्द्र)
(An Autonomous Centre of UGC)

Dated: 31/07/2017

Summer Training Certificate

This is to certify that, **Mr. Enokh Wajri**, student of M.Sc. (Electronics), **University of Delhi** has successfully completed his 2 months (from May 22, 2017 to July 22, 2017) summer internship.

The project was undertaken by him in BTS Lab, IUAC where he worked on "Development of interfacing board for Web based Data Logger for MHB control electronics" as an application of IoT for Accelerators.

His conduct during the training period was good. We wish him success in future.

Ashish Sharma
Mr. Ashish Sharma
Engineer

Dr. P. Sugathan
Dr. P. Sugathan
Programme Coordinator
डा. पि. सुगतन / Dr. P. Sugathan
Scientist 'H'
Research Coordinator
अन्तर-विश्वविद्यालय त्वरक केन्द्र
Inter-University Accelerator Centre
Aruna Asaf Ali Marg, New Delhi-110 067
email : sugathan@iuac.res.in