

Promika Singh

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CAREER VISION

To work in a challenging environment demanding all my skills and efforts to explore and adapt myself in different fields and realize my potential where I get the opportunity for continuous learning and research.

TEACHING EXPERIENCE

ITS Engineering College, Greater Noida

July 2016-Present

Assistant Professor

- Handling theory subject and technical practical(**Advanced Microprocessor, Nano Sciences, Microprocessor, Networks**)
- **Handling COE for National Instrument Lab VIEW Academy**
- **Group head for MSME project (Project is under consideration “ Solar Power Smart Waste Bin”)**
- Member of cultural committee
- Heading technical projects

RESEARCH EXPERIENCE

SFRF 2017 Indian Institute of Technology, Delhi

15 May 17- 23 June 17

- Summer Faculty Research Fellowship (SFRF-2017) at **Department Of Electrical Engineering, IIT-Delhi.**
- The topic of research was “RF Energy Harvesting TWCR AF and DF Relaying with Transreceiver Impairments”

INDUSTRIAL EXPERIENCE

CDIL Limited, Chandigarh

Aug, 2013 –Dec 2013

Trainee engineer

- Performed study of troubleshooting PCBs.
- Testing PCBs.

Garg Electronics, Panchkula

Feb, 2014 – Mar2014

Trainee engineer

- Performed extensive work on CAMRON in PCB designing.
- Developed design on PROTEL.

EDUCATIONAL QUALIFICATIONS

**Masters of Technology in Electronics and Communication Engineering
(PEC Chandigarh, CGPA-8.97)**

Aug 2014– Jun2016

PEC University of Technology Chandigarh

**Bachelor of Technology in Electronics and Communication Engineering
(Panjab University, Percentage-76.54%)**

Aug 2009– Jun2013

Chandigarh College of Engineering and Technology

AISSE (CBSE, Percentage - 77%)

Jun 2009

Moti Ram Arya Senior Secondary School Chandigarh

AISSE (CBSE, Percentage - 92.4%)

Jun2007

PAPER PRESENTATION

Published a national level technical paper on "**Dynamic Spectrum Access in Cognitive Radio Networks Using USRP and LabVIEW**" Sept 2015

Published a research technical paper on "**Performance Analysis of Linear Modulation Techniques with transreceiver in LabVIEW using USRP**" June 2016

Published a research technical paper on "**A Testbed using USRP and LabVIEW for Cognitive Radio Technology**" Oct 2016

Submitted a research technical paper on "**A Testbed using USRP and LabVIEW For Real Time Communication System**" Under Review

Submitted a research technical paper on "**TWCR DF Energy Harvesting with Transreciever Impairments**" Under Review

TRAININGS

VODAFONE

Jan 2013–Jun 2013

Worked as trainee in Vodafone under department OMC-R

ELVEKLABS

Jun 2011–Jul2011

Undergone summer training on PIC16F72

IATC

Jun 2010- Jul2010

Undergone summer training on PLC

FACULTY DEVELOPMENT PROGRAM

Advances in Analog Integrated Circuits and Signal Processing

January 09-13, 2017

Android Developer Fundamentals

March 27-31, 2017

INTERNATIONAL CERTIFICATIONS

Introduction to Electronics (Georgia Institute of Technology and Coursera-97%)

Nov 2016

Machine Learning-Dimensionality Reduction (Big Data University)

Dec 2016

Data Privacy Fundamentals (Big Data University)

Dec 2016

Digital Communication Networks(Alison)

July 2017

PROJECTS

M.E. dissertation(Research)

Dynamic spectrum access in cognitive radio networks using USRP

Jun 2015 –Jun2016

Details: Sponsor company – PEC university of technology

Objective–To transmit signal over ISM band using USRP 2921

Role

- Studying cognitive radio networks and dynamic spectrum access.
- Designing a testbed for study of NI USRP 2921 and implementing testbed using Universal Software Radio Peripheral (NI USRP) devices.
- Programming NI USRP devices using LABVIEW.
- Study of various modulations in ISM band and Comparison of performance of designed techniques.

M.E. Projects (Academic)

Color detection Tracking Using MATLAB (Dept.of ECE,PEC)

May2015

Designed and constructed color detection system on MATLAB

FM Radio Jammer (Dept. of ECE, PEC)

May 2015

Worked on Telecom based project, it jammed FM radio signal.

Car parking (Dept.of ECE, PEC)

Nov 2014

IR based and DTMF based automated car parking using PIC16F72.

B.E. Projects (Academic)

Project Study under Operation and Maintenance Centre – Radio, VODAFONE

Jan 2013–Jun 2013

- It includes study of hardware in telecom and also describes GSM
- Organized Industrial Trip under OMC-R department and Conducted hand's on workshops on telecom hardware
- Worked as trainee in Vodafone under department OMC-R

Security System (Dept.of ECE,CCET)

Jun2012

Related to door lock using microcontroller 8051

Car parking (Dept.of ECE,CCET)

Jun 2011

IR based and DTMF based automated car parking using PIC16F72.

Mining plant (Dept. of ECE,CCET)

Jun 2010

Software level project using PLC.

TECHNICAL SKILLS

Languages

MATLAB(FAMILIAR, 3Months)

LABVIEW (MEDIUM, 6months)

C,C++,OOPS(FAMILIAR,6 Months)

VHDL(MEDIUM, 12 months)

Tools and Libraries

Excel

PowerPoint

Ms Word

Qualnet

Opt-SIM

MPLAB

Operating Systems

Windows – 7,8,10, Vista,XP

Linux –Ubuntu

ACHIEVEMENTS &PARTICIPATION

- Have qualified **GATE with gate score 647**
- Have **AIEEE rank 18690 with State Rank 343**
- Have worked as a tutor for 10th ,11th, 12th from 2009-2016
- A paper was accepted by an **SCI indexed KAMERA journal**
- Was among top 10 students during B.E.
- Active participation in SPORTS MEET (won **Gold Medal And Bronze Medal** for two consecutive years in shot-put)
- Won **Third Prize in collage making** for NSS club and also Participated in tree plantation rally under NSS club
- Active participation in science Olympiads, computer Olympiads and various dance competitions at school and college level respectively.
- Was member of FINE ARTS CLUB IN B.E
- Active involvement in BLOOD DONATION camps