TUSHAR DESHMUKH

Master of Technology, Materials Science, IIT Kanpur

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Career Objective:

To work in a creative and challenging environment where I could constantly learn and successfully deliver solutions to problems

Educational Qualifications:

M. Tech. (*Materials Science*) → Indian Institute of Technology Kanpur (2014) → 6.82/10 B. E. (*Electronics Engineering*)→ Nagpur University (2011) **→** 62.60% → Maharashtra Board (2007) H.S.S.C. (*XII*) **→** 64.17% A.I.S.S.C.(X)→ CBSE (2005) **→** 62.80%

Scholastic Achievements:

- GATE-2016 qualified with AIR- 2965, Percentile- 98.05, GATE Score- 573
- GATE-2012 qualified with AIR- 2293, Percentile- 98.60, GATE Score- 579
- **GATE-2011** qualified with 97.7 percentile
- Awarded **Prime Minister's Merit Scholarship** for 2007-11

Extra- curricular Activities:

• GATE Guide, VNIT Nagpur

September - December 2014

- ➤ Guided 25 students from VNIT and private colleges in Nagpur
- > Subjects instructed are EDC, Network Theory, Control Systems
- **GATE Guide, IIT Kanpur**

October - November 2013

- > Guidance given for subjects are EDC, Communication Systems
- Senator, Y12 M. Tech. Batch, IIT Kanpur

August 2012 - May 2013

- > Batch representative in student's senate, a constitutional body, representing over 100 students
- > Dealing with all academic and non-academic issues related to students such as policy making
- Assistant Co-ordinator, Inter-IIT tech-meet JUGAAD

November 2012 - March 2013

- > Organized inter-IIT Tech meet JUGAAD on platform of Techkriti'13
- > Students participated from 14 different IITs, marked as an inception of inter IIT tech-meet
- **President, Hall-X**, IIT Kanpur

May - July 2013

> Addressed grievances related to hall developments and carried out hall allocations of 650 students

Work Experience:

Manager, Center of Innovation, VNIT Nagpur

July 2014 – July 2015

- In-charge of joint project of Institute-Industry pre-incubation activity based on Li-Ion batteries
- Providing mentorship to business incubates in incubation center
- Responsible for organizing seminars based on entrepreneurship development

Key projects and Thesis:

1. Multiphysics Simulation of Composites

(M. Tech. Thesis)

- Used nano-composites as well as metal powders as materials under test
- Used software COMSOL Multiphysics to simulate the results using microwave heating physics
- Studied change in dielectric behavior of the materials with respect to temperature
- Nature of electric and magnetic field is also studied
- Designed waveguide in COMSOL to operate on required particular frequencies by varying its dimensions

Thesis Supervisor- Dr. M. J. Akhtar

2. Design of Communication Network through Controller Area Network

(B.E. final year project)

- Interfaced CAN network with real time electronic circuit using microcontroller AVR ATmega16
- Reduced time lag in reception of signal from source to destination
- Used Orcad to design PCB containing microcontroller, microchip, CAN network, etc.
- Programmed microcontroller using assembly language programming

Project Guide- Prof. (Mrs.) P. P. Palsodkar

Core Competencies:

Electronics Credentials

- COMSOL Multiphysics 4.3b
 - ➤ Used Microwave oven and RF heating module
 - > Observed temperature profile after heating at microwave frequency
- MATLAB 2010
 - > Worked on digital signal processing by writing different programming codes
- Origin 8.5
 - > Used for plotting different curves
- Orcad 16.2
 - ➤ Worked on layout and schematic for designing PCB
- Ouartus II
 - > Manoeuvred for generating signal simulating at hardware level

IT Credentials

Programming Languages: C, VHDLComputer Proficiency: MS office

Operating System: Windows 8, Windows 7, Windows XP

Co-curricular Activities:

• "Programming Expertise Through C"

June- August 2008

Kanetkar's Institute of Computing and Information Technology, Nagpur

Relevant Courses:

Electronics Devices, Network Theory, Control Systems, Communication Systems, Analog Circuits, Digital Circuits, Signals and Systems, Electromagnetics

Personal Details:

Date of Birth : 04 September 1990 Father's Name : Yashwant Deshmukh Languages Known : English, Hindi and Marathi

Postal Address : 307/B, Rachana Vihar, Narendra Nagar, Nagpur, Maharashtra-440015

Declaration:

I hereby declare that the information provided above is true to the best of my knowledge.

Tushar Y. Deshmukh