

Vaibhav Jain

M.Tech. Corrosion Engineering

PG(II Year I Semester)

Registration No: M.Tech./CRE/13543018/2015

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**Indian Institute of Technology Roorkee****Area(s) of Interest:** Inspection and Quality Control, Heat Treatment and Field Emission

Educational Qualifications	Year	Board/Institution	CGPA* / %
M.Tech. 1st Year	2014	Indian Institute of Technology, Roorkee	6.8
UG: Production and Industrial Engineering	2013	M.B.M Engineering College, Jodhpur, Rajasthan	64.04
Twelfth	2008	CBSE	75.8
Tenth	2006	CBSE	76.8

*on a scale of 10

RESEARCH PUBLICATIONS

Vaibhav Jain, Amit Tripathi, Gaurav Mittal, Indranil Lahiri **"Field Emission Response Of Carbon Nanotubes Emitters Synthesized On Different Substrates"**, Proceeding For Publications in "7th Bangalore India Nano" International Conference, 2014

INTERNSHIP INFORMATION**Railway Workshop, Jodhpur**

Interchangeability of seats in coaches and study of maintenance and repair shops (22 May - 20 July 2012)

The vocational training included comprehensive training in various units of Machine shop. Studying the process manual followed by field visit to workshops enabled to get an idea about the various processes occurring in a mechanical workshop. Learned production and testing of components by various machining processes such as lathe work, grinding & milling.

National Engineering Industries Ltd, Jaipur

To Analysis the Recurring Problems and Find out the correct solution for grinding machine by doing Root Cost Analysis Techniques (13 June - 23 July 2011)

Learned about Ball Bearing manufacturing process, heat treatment process, checking of inner and outer diameter of balls and finding daily recurring problems on Grinding machine as well as correct solution to solve problems.

PROJECTS**IIT ROORKEE**

MTech Dissertation - Field Emission behaviour from different Nanomaterials (June 2014 - Ongoing)

Field Emission behavior of Carbon Nano-tubes and Study of Substrate Catalyst interface control for their Field Emission Property. CNTs show excellent field emission properties and it can be said that CNTs will be the best field emitter in future for advance applications. It is also considered that vertically aligned CNTs may be the best field emitter if grown on proper substrate. To get above properties it is planned to study and compare the field emission behavior of CNTs grown on copper substrate with different orientations (vertically and randomly grown) and also the effect of catalyst combination on field emission. These catalyst will be Fe, Co, Ni, Fe + Co, Fe + Ni, Co + Ni, Fe + Co + Ni.

MBM ENGINEERING COLLEGE, JODHPUR

B.E., Project - Machine Vision System For Quality Control (2012-2013)

In this project we developed Machine Vision System for Quality Control for Manufacturing Sector. In this technology we replaced manual inspections and measurements with digital cameras and image

processing. It can be applied in all manufacturing processes: incoming receiving, forming, assembly, and warehousing and shipping. The data from such machine vision systems is the foundation for computer integrated manufacturing.

SKILLS AND ACHIEVEMENTS

Computer Languages	Basic knowledge of C.
Software Packages	MS Office, Basic Knowledge of Pro-e & Matlab.
Languages Known	English (SRW) , Hindi (SRW) , Sanskrit (RW)

EXTRA CURRICULARS

Scouts & Guide Testing Camp , Jaipur (2005)

Has successfully taken the "RAJPAL PUSKAR" in Scout & Guide testing Camp.

" EUREKA 09 " National level techno- cultural festival (2009)

Awarded certificate of Participation in national level technical come cultural fest.

Sanrakshan (2011)

Has worked as volunteer in Sanrakshan organised by my undergraduate engineering college.

"Concresco" Indian Concrete Institute Student Chapter (2011)

Participated in the event Concresco and got certificate of participation.

Sports meet in Ganga Bhawan (2014)

Member of Champion team in Cricket in Ganga Bhawan Sports meet, 2014

PERSONAL DETAILS

Father's Name: Dilip Jain
Date of Birth: Oct. 4, 1990
Gender: Male
Contact No: 8791414391
Category: General

Permanent Address: Near Jatwara Primary School "Yashala Sadan" Jatwara, Mantown, Rajasthan, Sawaimadhopur - 322001
Current Address: AF-36, Cautley Bhawan, IIT Roorkee-247667

REFERENCES

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Dr. Debrupa Lahiri

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