Saransh

Career Objective

To work in an environment in which I can hone my engineering and interpersonal skills and grow professionally along with the organisation.

Internships

1.Interuniversity Microelectronics Center (imec)

KU Leuven, Belgium

Project- Solder based self-aligned assembly for 3D integration

To enable die-to-die stacking using solder based self-aligned assembly. Responsibilities:

- To clean chips and strip resist before stacking,
- To stack chips using SET FC150 tool,
- To analyze the stacked chips using IR microscopy and cross-section SEM.

Technical skills:

- Class 1000 cleanroom experience, SET FC150 thermo-compression bonder, NOVA SEM, IR Microscopy, Optical microscopy, Cross-section sample preparation by fine polishing.

2.Bhabha Atomic Research Center (BARC),

Mumbai, India

Project- Effect of silver Nano-particles deposition on Raman enhancement of autoclaved steel alloy-800 Responsibilities:

- To clean and prepare sample for deposition of silver Nano-particles.
- To analyses and set parameter according to requirement of deposition technique
- To analyze surfaces of high- temperature immersion corrosion of steel alloys- Monel-400 and C-276.

Technical Skills:

- Sample preparation, Electrolytic deposition, Pulse laser deposition, Magnetron Sputtering and Electroplating, Grain size analysis, Hardness and Micro-hardness testing, Scanning Electron Microscope, X- ray diffraction, Micro-Raman spectroscopy.

Education

Year	Degree/Certificate	Institute/City	CGPA/Percentage
2013-17	B.E (Materials & Metallurgical Engineering)	PEC university of Technology, Chandigarh	7.15
2012	Senior Secondary(HBSE)	Govt. Sen. Sec. School, Patel Nagar, Hisar	82.66
2010	Secondary(CBSE)	CCS, HAU Campus School, Hisar	8.8

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Feb'16-July'16

May'15-July'15

Academic Projects

1. Structural and Photochemical study of Bi₂O₃ doped with TiO₂

Theoretical and Technical Study:

- To synthesize powder of TiO₂ doped in Bi₂O₃.
- To characterize the synthesized powders as well as sewage water.
- **3rd prize** in poster presentation in National level Civil Engineering Tech-fest.

2. Synthesis of p-type solar cell

Theoretical and Technical Study

- To synthesize CZTS thin film by sol-gel process.
- To characterize the synthesized thin films by XRD.
- **3rd prize** in PEC Open house project display for synthesis of solar cell by dip coating.

Certifications

- American Standard of Non-Destructive Testing (ASNT- Level II)- VT, UT, MPT, PT, RFI, ET.

Skills Acquired

- Hardness techniques
- Metallographic Testing
- Mechanical testing

-Corrosion weight loss study -Scanning Electron Microscopy -Optical Microscopy

-IR microscopy- Microstructure analysis

References

Dr. Vivekanand Kain Head, Corrosion Science Section, Materials Science Division, Bhabha Atomic Research Center (BARC) Mumbai-400 085 India E-mail: <u>vivkain@barc.gov.in</u>

Dr. Vikas Dubey PhD (IMEC), Executive Engineer Delphi, Hungary E-mail: <u>Vikas1987d@gmail.com</u> Dr. Uma Batra Department Head & Professor, Materials & Metallurgical Engineering PEC University of technology (PEC) Chandigah-160012

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Jan'15- May'15

Aug'16- May'17