

SUNIKSHIT SHARMA

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Personal Information

Date of Birth: 06.09.1995
Nationality: Indian
Marital Status: Single
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Education

10/2018 - Present

Masters in Materials Science University of Paderborn, Germany

- Course Content: Characterization Techniques of solids, Functional Materials, Surface Technology, Materials Physics and Analysis.

08/2013 - 07/2017

Bachelors of Engineering in Mechanical Engineering Visvesvaraya Technological University, India

- Course Content: Strength of Materials, 3D-CAD, Measurement Technology, Manufacturing Technology, Finite Element Method

Work Experience

08/2017 - 06/2018

Technical Sales/Marketing Engineer U-Tech Associates, India

Coolant filtration system, Pumping system, Chip Handling Machinery and Automatic Tool Changer manufacturer.

- Understanding of the machine layouts for different clients.
- Providing technical solutions based on flow rates and filtration levels expected.
- Data Analysis, Daily reports, Managing Projects individually (Tools used: SAP, MS Office, Solidworks)

Projects

11/2019 - Present

Surface Modification of Twin Roll Casters

- Research on adhesion between two metals.
- Roll Bonding Technique
- Different Plasma treated samples with deposition techniques such PECVD, PVD and DLC were done for modification.
- Mechanical testing using specialised 3D printed tools and analysis of data.
(Tools used: Materialise Magics, MS Excel, Python)

01/2017 - 06/2017

Analysis of Engine Performance with Different Biodiesel Blends

- Three blends of biodiesel were compared.
- Testing of the biodiesel samples.
- Testing of the engine: Mechanical efficiency, Volumetric efficiency, Brake Power, Friction Power.
(Tools used: Matlab, MS Excel)

08/2016 - 09/2016

Number Plate Recognition System Using MATLAB

- Creation of database
- Development of letter and number plate detection
- Performed manual testing

01/2016 - 05/2016

Carbon Dioxide Solar Still

- Design and Development of the Water purification system.
- Assembly and Fabrication of the system.
(Tools used: Solidedge, CAD)

Trainings

05/2016 – 06/2016

Gurnam Singh and Co, India

- Dual Rotatory Drilling Rig Machine mode DR-24 Heavy Duty.
- Logging of Borewell and Development using Air Compressor
- Assembling of Submersible Pump set

02/2015 - 03/2015

Government of Jammu and Kashmir

- Pumping Machinery like Submersible pump sets, HC pump sets, Vertical Turbine pump sets etc.
- Motors like Submersible Motors, VT Motors and Induction Motors

02/2014 - 03/2014

JCB, India

- Engine assembly, engine testing and maintenance of the system.
- Analysis of the test data.
- Hydraulic system and Operating system of JCB 3DX and JS-205.

Achievements

02/2017

First position in India's First Eco-Driveathon

07/2016

Third position in State Level Project Competition

Practical Experience

06/2019 - 07/2019

Determination of Wettability and Surface Free Energies of Modified Solids Surface.

05/2019 - 06/2019

Spectroscopic Ellipsometry of different samples to characterise physical properties of the film.

08/2019 - 09/2019

Tensile Testing of 22MnB5 using In-Situ Scanning Electron Microscope

Skills

- Microsoft Office
- Simulation (MATLAB, Simulink)
- Material Characterization (SEM, EDX, EBSD)
- Material Testing (Shear, Tensile, Compression, Hardness)
- CAD (Materialise Magics, Solidworks, Solidedge, Autodesk Fusion 360)
- Metallography (Metallographic techniques, UTS)
- Programming (Python, C++, Latex)
- Modelling (Quantum Espresso, Orca, Vesta)

Language Skills

- English Native or Bilingual Proficiency
- German Professional Working Proficiency
- Hindi Native or Bilingual Proficiency

