

M.Tech-Manufacturing Science and Engineering Indian Institute Of Technology, Guwahati

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EDUCATION

Degree/Certificate	${\bf Institute/Board}$	CGPA/Percentage	Year
M.Tech.	Indian Institute of Technology, Guwahati	7.07 (Current)	2023-Present
B.Tech.	Bhagalpur College of Engineering, Bhagalpur	7.87	2015-2019
Senior Secondary	BSEB Board	75%	2015
Secondary	BSEB Board	74.6%	2012

EXPERIENCE

· Indian Institute of Technology

July 2024 - Nov 2024

Teaching Assistant (TA), Course ME 110

Guwahati

Patna

- Assisted students in workshop, providing technique and safety advice

• S & A Technology

Industrial Training

Aug 2019 - Jul. 2023

Assistant Teacher

— Provided individual and group tutoring to support students in areas of difficulty

• National Thermal Power Corporation (NTPC) Kahalgaon

1st Jun 2018 - 30th Jun 2018

Kahalgaon

- Basics of thermal power plants, including understanding different types of boilers, turbines, and generators.
- Hands-on training with plant machinery and equipment

• TATA Motors 1st Jul 2018 - 15th Jul 2018

Vocational Training

Bhagalpur

- Introduction to automotive components, systems, and the manufacturing process

PROJECTS

• Electropolishing of Additive Manufactured Biomedical Implant

Ongoing

MTP Under Prof. Manas Das, Dept. of Mechanical Engineering

- Multiphysics numerical simulation of EP process to optimize the process parameter
- Achieve a smooth, high-quality surface with enhanced properties through Plasma Electropolishing

• Effective Methods for Clearing Bone Residue from Bone Drill Bits

Jan 2024 - May 2024

Under Prof. S. Kanagaraj, Dept. of Mechanical Engineering

- Designed and developed a bone drill bit set using AM techniques, resulting in improved efficiency and effectiveness in removing bone residue
- Tensile and Flexural Behavior of Bi-directional Natural Fiber Composite by VARTM Under Prof. Ujendra Kumar Komal

Jan 2024- May 2024

- Project focused on investigating the mechanical properties of bi-directional natural fiber composites.
- Analyzing the influence of fiber orientation and matrix type on the performance of natural fiber composites

• Production of Electricity from Speed Breaker

Jan. 2019 - May 2019

 $BTP\ under\ Prof.\ Raushan\ Kumar$

- Convert mechanical energy from vehicles passing over speed breakers into electrical energy

TECHNICAL SKILLS

- Design/ Analysis Software::SolidWorks, COMSOL Multiphysics, AutoCAD
- Programming: MATLAB, CNC, Python*
- Miscellaneous : MS Word, MS Excel, MS PowerPoint, Ultimaker Cura, PowerMill

* Elementary proficiency

KEY COURSES TAKEN

- Mathematics: Linear Algebra, Basic Calculus, Discrete Maths, Probability & Random Processes
- Manufacturing: Welding and Additive Manufacturing, Engineering Materials and Characterization, Manufacturing of Polymers and Polymer Composites, Biomedical Devices and Systems

ACHIEVEMENTS AND EXTRA CURRICULAR ACTIVITIES

• GATE, Qualified with 92.63 percentile in Mechanical Engineering	2022
• Mentor, Saathi Counseling Club, IIT Guwahati	2024
• GOLD Medal, District Level Taekwondo Championship, Nalanda	2010
• NTSE, National Talent Search Examination	2009