



RAUSHAN KUMAR

Roll No.:234103221

M.Tech-Manufacturing Science and Engineering

Indian Institute Of Technology, Guwahati

+91-9122165619

raushank.3221@iit.ac.in

raushan.a.ved@gmail.com

linkedin.com/in/raushan-kumar-843139203

EDUCATION

Degree/Certificate	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	62.2%	2014
Secondary	BSEB Board	74.6%	2012

EXPERIENCE

- Indian Institute of Technology** July 2024 - Nov 2024
Teaching Assistant (TA), Course ME 110 Guwahati
– Assisted students in workshop, providing technique and safety advice
- S & A Technology** Aug 2019 - Jul. 2023
Assistant Teacher Patna
– Provided individual and group tutoring to support students in areas of difficulty
- National Thermal Power Corporation (NTPC) Kahalgaon** 1st Jun 2018 - 30th Jun 2018
Industrial Training 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** Jan 2024- May 2024
Under Prof. Ujendra Kumar Komal
– 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