



RASHIK KALITA

Roll No.:200103134

B.Tech - Mechanical Engineering(2020-24)

Indian Institute Of Technology, Guwahati

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Guwahati	7.89 (Current)	2020-Present
Senior Secondary	Assam Higher Secondary Education Council	89.0%	2019
Secondary	Board of Secondary Education, Assam	94.16%	2017

EXPERIENCE

- Oil India Corporation Limited** Jun 2023 - Jul. 2023
Summer Intern Noonmati,Guwahati
 - Project on **Mechanical Maintenance**. Learned about mechanical pumps, compressors, heat exchangers and their operational principles, basic terminologies and common pump failures.
- Northeast Frontier Railway** Jun 2022 - Jul. 2022
Summer Intern Maligaon,Guwahati
 - Project on **Fire Detection and Suppression System** inside AC and pantry cars. Learned causes of fire and the processes of automatic detection sensing temperature rise along with suppression system.
- Prism Eduventures Coaching Center** Apr 2021 - Mar 2023
Mathematics Faculty Lankeshwar,Guwahati
 - Getting students ready for **IIT-JEE**. Believe in cooperative learning, prioritize open communication with students, class discussions, and create a positive learning atmosphere.

PROJECTS

- BTP Project** Aug 2022 - Present
Prof. Senthilvelan Selvaraj, Mechanical Engineering,IIT Guwahati OneDrive
 - Design and Development of Domestic Cold Press Oil Extraction Machine
 - Applied machine design principles to develop **Mortar and Plunger**, refining for efficiency.
- Machine-Design Project** Jan 2023 - May 2023
Dr. Poonam Kumari, Mechanical Engineering,IIT Guwahati OneDrive
 - Improvisation of Heavy Duty Bicycle
 - 3D CAD-designed compound chain-drive for mechanical speed boost, without electricity.
- Advanced Machining Project** Mar 2023 - April 2023
Prof. R.K.Mittal,Mechanical Engineering,IIT Guwahati OneDrive
 - Use of **Laser cutting Technique** to create intricate patterns on metal
 - Used AutoCad for surface pattern, generated laser code with **CADMAN PL** software.

TECHNICAL SKILLS

- Engineering:** AutoCAD, MATLAB, Python*, C
- Miscellaneous:** MS Office, Adobe Premiere, Subject Matter Expert * Elementary proficiency

KEY COURSES TAKEN

- Mathematics:** Linear Algebra, Single variable calculus, Complex analysis, Differential Equation
- Departmental:** Thermodynamics, Fluid Mechanics, Strength of materials, Manufacturing Technology

ACHIEVEMENTS

- NIT to IIT:** Reappear in JEE Advanced, jumped from NIT to IIT in 2020.
- Best Student of the Year:** Awarded the title of best student in school year 2016.
- Change of Branch:** Awarded a change of branch based on performance in 1st year.
- All Assam Rank 12:** Secured 12th rank in State Level Talent Search Examination.
- ONGC Meritorious Scholarship:** Among top 300 candidates selected for ONGC merit based scholarship.

EXTRA-CURRICULAR

- Chegg Expert:** Helping students worldwide with math doubts since October 2020.
- Spardha:** Secured bronze medal in **Power-lifting** competition in Feb 2023.
- Chess Competition:** Participated in North-East School Chess Championship 2015 and secured 15th rank.
- Auto-info 2019:** Attended a 4-days workshop on Automobile Training and Design.