

Sumit Singh (21EE30028)

2nd Year Undergraduate

Department of Electrical Engineering

Indian Institute of Technology Kharagpur

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in Sumit Singh

Academic Qualifications

Year	Degree/Certificate	Institute	CGPA/%
2021 - Present	Dual Degree in Electrical Engineering	Indian Institute of Technology Kharagpur	8.25/10
2021	Class XII (CBSE)	Tagore English Academy, Nadbai, Bharatpur	96.6%
2019	Class X (CBSE)	Tagore English Academy, Nadbai, Bharatpur	98.2%

Internships & Projects

Do It Yourself, IIT Kharagpur

December 2021 - March 2022

Designed and fabricated a **rocker-bogie, 360-degree vision-enabled rover**, able to walk on **rough terrain** with a team of 5.

Skills

Git and GitHub

- All about Source Control using Git
- Making a git commit, and writing Pull Request proposals
- Pushing a commit to a remote repository
- **Basic Git Commands:** git add, git status, git diff, git log, git checkout, git merge, git clone
- Branching and Merging git commits
- Creating a Pull Request on GitHub

Programming Languages, Libraries and Frameworks

- Fluent in coding in 5 different programming languages: **Python, C, C++, Javascript, MATLAB**
- Have experience with several Frameworks and Libraries including (but not limited to): **Numpy, Matplotlib, OpenCV, Pandas, scikit**

Markup Languages

- HTML

Software Tools (including but not limited to)

- LTSpice
- Simulink
- MATLAB
- Tinkercad

- LaTeX

- Autocad
- MS Office
- Adobe Premiere Pro
- Adobe Photoshop

Coursework Information

Mathematics and Programming Courses:

- Probability and Statistics, IIT Kharagpur
- Linear Algebra, Numerical and Complex Analysis, IIT Kharagpur
- Advanced Calculus, IIT Kharagpur
- Programming and Data Structures*, IIT Kharagpur

Humanities, Social Science & Others:

- Environmental Studies, IIT Kharagpur
- Economics, IIT Kharagpur
- Introduction to Innovation and Entrepreneurship, IIT Kharagpur

Note: Courses marked with * have a lab component also. Courses marked with ** are currently ongoing.

Electrical and Electronics Courses:

- Electrical Technology, IIT Kharagpur
- Analog Electronic Circuits*, IIT Kharagpur
- Network Analysis*, IIT Kharagpur
- Signals and Systems*, IIT Kharagpur
- Digital Electronic Circuits*, IIT Kharagpur
- Electrical Machines*, IIT Kharagpur
- Measurement and Electrical Instruments*, IIT Kharagpur
- Data Communication, IIT Kharagpur

Awards and Achievements

- Secured All India Rank of 3871 in **JEE Advanced 2021** (out of 1,72,000 candidates)
- Secured All India Rank of 13268 in **JEE Mains 2021** (out of 12,00,000 candidates)
- Scored **highest** in CBSE X and XII in home **district, Bharatpur, Rajasthan**

Positions of Responsibility

Secretary, Academic Help Subcommittee

April 2022 - April 2023

Students' Welfare Committee, Technology Students' Gymkhana, IIT Kharagpur

- Coordinated and led the Induction Team members to successfully conduct a **5-day long Induction Program** for more than **1900 UG Freshers 2022**.
- Convened **Students' Welfare Subcommittee Meetings** discussing the welfare of more than **12000 students** on campus.
- Helped in organizing and successfully conducting a **Blood Donation Camp** with collection of more than **50 units** of blood.
- Coordinated with *Student Welfare Group, IIT Kharagpur*, and helped them successfully conduct **Career Orientation Session, PDS Doubt Sessions** and many other events and workshops.
- Guided Design and Content teams for the **Induction Handbook 2022**.
- Designed a **Feedback Form** for the academic affairs of students and professors.
- Coordinated with *The Art of Living* to successfully conduct a **3-day long Life-Skills Workshop: Yes!+.**
- Organised a Guest Lecture by *ISB (Indian School of Business)* which saw a participation of more than **70 students**.

Extra Curricular Activities

- Cadet at 3 Bengal Technical Air Squadron, Kharagpur

(National Cadet Corps) December 2021 - March 2023