

Saurabh Kumar

Third Year Undergraduate
Department of Electrical Engineering

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Education

Degree	Institution	CPI/%	Year
B.Tech	IIT Gandhinagar	7.01	2021 - Present
Class XII	Rani Laxmi Bai Memorial School, Lucknow	92.8	2020-2021
Class X	Rani Laxmi Bai Memorial School, Lucknow	96.4	2017-2018

Projects

- **2R Robotic arm** [January 2023]
 - Made a robotic arm having two rotatory joints and one prismatic joint, which replicate the movement of the human arm and move the prismatic tip to the given coordinate.
 - Programmed the Arduino for motion control and integrated it with Tinkercad.
 - Constructed the AutoCAD model and its assembly.
 - Tools used Arduino Ide, Tinkercad, and Autocad.
- **Solar Tracker** [November-December 2023]
 - Built a device that tracks the sun's movement and moves along with its motion.
 - Designed the working structure of the model.
 - Developed algorithm for fast-tracking and motion replication.
 - Tools used Arduino Ide, Tinkercad, and Autocad.
- **BB8** [August 2022-October 2022]
 - Synthesised a robot inspired by the movie Star Wars.
 - Designed the structure and modeled the prototype.
 - Worked with control algorithm using Arduino.

Positions of Responsibility

- **Core member, Mean Mechanics/Robotics club** [September 2022-Present]
 - Worked with Arduino, Raspberry Pi, Tinkercad, Autocad, Odrive.
 - Organised workshops on Arduino, Sensors, and motor control.
 - Represented the team in the Roboquest competition.
- **Tech Expo Executive** [2021-2022]
 - Worked as Tech Expo executive in the Amalthea team.
 - Conducted meetings with various tech companies.

Achievements

- **Roboquest winners** [January 2023]
 - Secured 4th position in a Roboquest competition organized by Amalthea.
- **Academic Excellence Award** [2018]
 - Received the price of 20k for securing 96.4% in X class.

Skill Summary

- **Languages:** Python, C, C++, Verilog, HTML
- **Tools:** Autodesk Inventor Professional, Matlab, Tinkercad

Extra-Curricular Activities

- Powerlifting and weightlifting
- Volunteered in National games