

Shauraya Aggarwal

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EDUCATION

Thapar Institute of Engineering and Technology Patiala, India
*B.Tech in Mechatronics & Minor in CSE | **Current CGPA: 8.2/10*** September 2022 - present
Spring Dale Senior School Amritsar, India
*CBSE - Science (PCM) | **12th Percentage: 92%** , **10th Percentage: 89%*** April 2009 - May 2022

EXPERIENCE

ELC Summer Internship 2024 | *Project Lead* June-July 2024

- Created and **Optimised** a budget-friendly **autonomous mobile robot** that can be used for room **cleaning** purposes with an accuracy of **80 percentage**.
- Currently being used by University's Experiential Learning Center to teach **500+ students** every year about **microcontroller coding and electronics**.
- Ranked **First among 85** other projects from ELC Summer-internship 2024 in the Mechanical Department.

PROJECTS

Soil Mineral Testing System | *Solidworks, Arduino IDE* [Link!](#)

- Developing a **compact scientific laboratory** to **collect and test** soil samples of different sites while being **mounted on an all-terrain vehicle**.

Robotic Hand Gripper | *OpenCV, Solidworks, Matlab* [Link!](#)

- Researching** and developing **gesture-controlled** hand grippers for **long-distance surgeries**.

POSITIONS OF RESPONSIBILITY

Mechatronics And Robotics Society | *Mechanical Lead* August 2024 - Present

- Guiding a team of **50 university students** in **CAD engineering and Manufacturing** to create robotics projects for the university.
- Looking after the mechanical aspects of all the projects under the society.

TECHNICAL SKILLS

Languages: C/C++, Python, OpenCV, Matlab

Tools / Frameworks: Solidworks, PTC Creo, AutoCAD, Ansys, Git/GitHub, Microsoft Excel, EasyEDA, Circuit Design, PCB layout, Industrial Design, VS code

Hardware Boards: Arduino, Esp32, Teensy 4.1, raspberry pi

Others: Problem-solving, Management, Communication, Team Work, Analytics

AWARDS AND ACHIEVEMENTS

Nationwide Winner in BITS ERC Hackathon | *1st position Among 50 Universities* July - August 2024

- Designed a **Single boogie Mini Rover** and **4+2 DOF Robotic Arm** capable of navigating, diagnosing, and repairing electrical failures around the BITS campus. [Certificate!](#)

Finalist In International Rover Challenge 2024 | *IRC 24 Coimbatore* January 2024

- Advanced to the finals beating a tough competition of **200+ teams** which takes place in a specially curated **Mars site** where finalists compete in multiple tasks for 4 days. [Certificate!](#)

Robotics Seminar for High School Students | *Organiser and Speaker* February 2024

- Led interactive **workshops for 50+ students**, fostering engagement in hands-on engineering challenges improve learning outcomes while promoting interest in **STEM** fields. [Certificate!](#)