

Shashank Agarwal

☎ +91-85808-25850

✉ shashankmarch27@gmail.com

🌐 Shashankmarch27

🌐 LinkedIn Profile

EDUCATION

- **Punjab Engineering College, Chandigarh** 2021-Present
B.Tech In Electrical Engineering CGPA: 6.04
- **SGGS Collegiate Public School, Chandigarh** 2019-2021
11th and 12th Percentage: 86.8%
- **The Gurukul, Panchkula** 2017-2019
9th and 10th Percentage: 85%

PROJECTS

- **Servo Tester** 2nd Semester
Designed a Servo tester to create a user-friendly tool for accurately testing and calibrating servo motors
 - An AVR Microcontroller in combination with a LCD display was used to create a user interface for the Servo Tester
 - This Servo Tester was created to provide a easy and fast way to test and calibrate servo motors used in robotics and automation
- **Dino Game** 3rd Semester
Made a replica of the famous chrome dino game
 - The game was made using a esp8266 Xtensa based 32 Bit Microcontroller, it can calculate the score of the player and even store the highest score in its memory
 - This was made as a fun project to explore the capabilities of the esp8266 Microcontroller
- **Lipo Charger** 3rd Semester
Designed and fabricated a Lithium battery charger
 - The lipo charging circuit was designed and then fabricated on a custom designed PCB, using a tp4056 lithium battery charger IC
 - The circuit can charge a Lithium Polymer cell and is suitable for embedding in low power application that require to be powered through a battery
- **Hovercraft** 4th Semester
Made a RC model of a hovercraft for Techkriti 2023
 - Developed the circuit and code for the control of the hovercraft using a wireless radio transmitter
 - This was a team project made for HoverMania organised at Techkriti 2023 at IIT Kanpur
- **Smart Plug (Minor Project)** Ongoing
Currently working on a IOT Wall plug
 - This is an ongoing project aimed at developing a Smart wall outlet that can track the energy consumption of appliance through out the day
 - The aim of the project is to monitor the energy consumption of the appliance through out the day, and reduce the energy usage through automations
- **Gesture Control RC Car** Ongoing
A work in progress project, to control a RC car using hand gesture
 - Currently in the process of developing a system to control a rc car using hand gestures, a Inertial Measurement Unit (IMU) is being used to detect the hand gestures
 - This type of gesture control finds many application in robotics and medical fields

TECHNICAL SKILLS AND INTERESTS

Technical Skills: Arduino, C++, Analog Electronics, Digital Electronics, PCB Designing, Circuit Simulation

Soft Skills: Reverse Engineering, Problem Solving, Team Player, Critical Thinking

Areas of Interest:

Languages: English, Hindi

ACHIEVEMENTS

- **2nd Prize in Electrovis** organised by IEEE PEC student chapter 2022
- **1st Prize in Robo Race** organised by Robotics Society PEC at PECFEST 2022