

# Shashank Agarwal

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🐙 Github

🌐 LinkedIn Profile

## EDUCATION

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- **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%

## EXPERIENCE

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- **Statcon Electronics India Limited** Noida  
*Embedded Software Internship* January - June, 2024
  - Studied and gained proficiency in PLL (Phase-Locked Loop), Park Clarke Transform, PI (Proportional-Integral) controller, and feedforward control concepts through self-directed learning and online resources.
  - Practiced implementing these concepts in MATLAB simulations to understand their practical applications in control systems engineering.
  - Explored the Zeigler-Nichols method for PI tuning to optimize controller performance in various control systems applications.
  - Demonstrated ability to apply theoretical knowledge to real-world problems, enhancing understanding of electrical engineering principles and advanced control techniques.

## PROJECTS

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- **CanSat Ground Station** Ongoing  
*Developing a ground station for CanSat using React Vite.*
  - Utilizing React Vite to create a web-based ground station interface for receiving and analyzing data from CanSat missions.
  - Implementing real-time data visualization and telemetry features to monitor the CanSat's performance during flight.
  - Integrating features for data logging, mission planning, and remote control functionalities into the ground station software.
  - GitHub repository : <https://github.com/Gagan-Space/Cansat-Ground-Station>
- **Dino Game** 3rd Semester  
*Made a replica of the famous Chrome Dino game*
  - Developed using an ESP8266 Xtensa-based 32 Bit Microcontroller, capable of scoring and storing the highest score in memory.
  - Exploration project to showcase the capabilities of the ESP8266 Microcontroller.
- **LiPo Charger** 3rd Semester  
*Designed and fabricated a lithium battery charger*
  - Designed and fabricated a LiPo charging circuit using a custom-designed PCB and TP4056 lithium battery charger IC.
  - Suitable for embedding in low-power applications powered by lithium polymer cells.

## TECHNICAL SKILLS AND INTERESTS

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**Technical Skills:** Arduino, C++, Analog Electronics, Digital Electronics, PCB Designing, Circuit Simulation, MATLAB, Web Technologies, ROS, Linux

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

**Areas of Interest:** Computers and its history, Operating Systems, Robotics, Control Algorithms, Digital Signal Processing, Image Processing

**Languages:** English, Hindi

## ACHIEVEMENTS

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