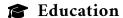
# Satrudhan Chauhan

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### Profile

Enthusiastic electrical and computer engineering specialist skilled in circuit design, PCB designing, Python, C++, and Arduino programming, with basic knowledge of VLSI. Showcasing adaptability and leadership through hands-on projects. Committed to innovative electronic system design.



# Bachelor of Technology in Electrical and Computer

2021 – present | Kollam, India

**Engineering** 

Amrita Vishwa Vidyapeetham, Amrithapuri

Current CGPA: 8.24

10+2 (PCM) 2019 - 2020 | Birgunj, Nepal

Alpine Higher Secondary School, Nepal

Percentage: 91%

#### Secondary Education Examination, Grade-10

2017 - 2018 | Birgunj, Nepal

Maisthan Vidyapith Ma. Vi. Birgunj

Percentage: 91.25%



**Soft Skills:** Strong problem-solving | Analytical skills | Communication | Leadership | Critical thinking | Attention to detail

Technical Skills: Analog/Digital/Power/Micro Electronics | Circuit designing | PCB designing | KiCAD/ Altium /Autocad | Verilog | Embedded System design | VLSI basics | C++ | Python | Arduino /NodeMCU /Raspberry Pi | ARM micro controllers | Troubleshoot and repair hardware issues | Hardware Engineer



### Auto Misalignment Correction System for the Transmitter Coil in Wireless Electric Vehicle Charging to Achieve Maximum Power Transfer

05-2024 - present

- Addressed longitudinal, lateral, and vertical alignment issues to optimize power transfer and efficiency.
- Implemented real-time detection and correction mechanisms for seamless coil alignment.

### Hexapod Robot [Gujarat Council on Science and Technology]

06-2024 - 11-2024

- Needed a robot capable of navigating complex terrains, including climbing obstacles, for explorations.
- created and designed a six-legged robot that can walk in all directions having stable locomotion control.

#### 18 Channel Servo controller PCB design

10-2024 - 10-2024

- Designed a servo controller for a hexapod robot that can operate 18 servos using a PIC24FJ64GA004 microprocessor.

#### Brainwave-Controlled Drone Using EEG Technology

01-2024 - 09-2024

- Encountered challenges in developing a drone with autonomous flight and brain control.
- Implemented a brain-controlled interface to enable direct user control of the drone's operations.

#### Traffic Light Controller Using Verilog

06-2023 - 10-2023

- Needed a reliable traffic light control system for a country road intersecting a main highway.
- Designed and implemented a Traffic Light Controller using Vivado for efficient traffic management.

#### **GSM Based Home Automation**

03-2023 - 05-2023

- Developed GSM-based system enabling remote control via mobile devices.
- Enhanced accessibility with seamless device management from anywhere using smartphones.

#### **Buck converter PCB design**

- Designed a buck converter PCB to step down voltage from 12V to 5V, ensuring stable power delivery for electronic circuits.

#### STM32F Microcontroller PCB design

- Created a custom PCB for STM32 IC, ensuring efficient component placement and power distribution for embedded system.

#### **Design of Boost Converter circuit**

# \* Positions Of Responsibility

Robotics Club 2021 – present

Hardware Maestro

- Acquired skills through workshops and competitions by mastering hardware repair and optimization.
- Contributed to innovative robotics projects in the college's premier robotics club.

Participated in the Robotics Competition organized by GUJCOST through our college's Robotics Club.

# Career Guidance Event for Children in an Orphanage as an SSR project.

09-2023

Team Lead

- Organized a 2-day career guidance event, benefiting children in an orphanage.
- Managed event logistics and participant engagement, ensuring a successful outcome.