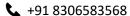


My Contact

□ 21BEC1061@cuchd.in



P Chandigarh University, Gharuan, Mohali, Punjab







Skills

- Embedded systems
- Arduino, Raspberry Pi, STM32, NodeMCU, ESP32
- Sensor Interfacing, IoT, Wireless Communication
- Assembly Language & Embedded C
- C++, java , Python
- Creative Problem Solving
- Delegation
- Teamwork

Certifications & Courses

- Python for Data Science, Al & Development from Coursera
- Full stack web development (MERN Stack) from Apna College
- Analog Circuits from NPTEL
- VLSI Design from Internshala

Achievements

- Secured 3rd position in the International hackathon competition held at Uttaranchal University
- Recognized with an Academic Excellence, Performer and Competitor award by Chandigarh University
- Represented ECE Department in CAB meeting 2024

Extra & Co-Curricular Activities

Participated in a hackathon competition at Uttaranchal University and Secured 3rd position

Hobbies

- Taekwondo
- Chess

AVINASH

Career Objective

Aspiring Electronics and Communication Engineering student seeking opportunities to apply academic knowledge and hands-on dynamic career that involves innovation, problemsolving, and continuous learning in the ever-evolving world of electronics and technology.

Education Background

Bachelors in Electronics and Communication Engineering I Chandigarh University, Gharuan

Session: 2021-2025 | CGPA: 8.1 till 5th sem

Intermediate (RBSE) | R. S. S. Sr. Sec. School, Hanumangarh Town, Rajasthan

Session: 2019-2020 | Percentage: 77.20%

Projects

> IoT based smart Agriculture Monitoring System

Developed an IoT-based solution to optimize agricultural processes and improve crop yield using C++, NodeMCU and various sensors.

➤ IoT based multiple submersible pump control system for agricultural irrigation system

Developed an IoT based solution for multiple submersible pump control using NodeMCU, Arduino, NRF24L01, ZMPT102B, DHT22, RTC1307, Relays, Blynk mobile Application.

Land Mine Detector and Remover

Developed a rover having robotic arm and a wireless remote controller having range of 1Km to detect land mines and to remove them.

Custom Hand Gesture control system using Raspberry Pi

Developed a device to detect the gestures of the humans and can control any devices using raspberry pi, Camera, Relays, and machine learning algorithms.

Power Supply Inverter 12V to 50-0-50 of 1000W

Build a power Supply using 8 MOSFETS(IRF3205) and IC SG3525 for Class AB amplifier.

Two Channel Class AB Amplifier(200watt each Channel)

Build a class AB amplifier using BJTs (2SA1943, 2SC5200) for audio amplification works on 55-0-55v.

Trainings

- > Full stack web development (MERN Stack) from Apna College
- > IoT & Embedded System by Edustation
- VLSI design from Internshala

Publications

IoT Based Smart Agricultural Monitoring System

DOI: 10.1109/ICECAA58104.2023.10212196

Patents

► IoT based multiple submersible pump control system for agricultural irrigation system

Application No: 202411009196

Self-driving electric vehicles with Swappable battery

Application No :202411014379