

# HIMANSHU

ELECTRONICS AND COMMUNICATION ENGINEERING GRADUATE



Saharanpur, UP



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## EDUCATION

Gurukula Kangri University, Haridwar

**B.Tech, Electronics And Communication Engineering** [2018 - 2022]

CGPA: 8.2

Guru Nanak Inter College (UP Board)

**Class XII** Percentage: **74.60** [2017]

**Class X** Percentage: **84.50** [2015]

## EXPERIENCE

**Freelancer/self-employed in embedded and pcb designing**

July/2021 – July/2022 [ 1 Year]

**Embedded engineer in R&D department at Sukriti Social Foundation**

July/15/2022 – Present [ 1 Year]

## PET PROJECTS

**Micromouse Robot and Simulator**

- Hardware :- stm32f411 uc, Osram 4550 and TEFT 4300 ir sensors, N20 encoder motors 6v 200rpm 3k ppr, 7.4v lipo battery, zero pcb, ssd1306 oled display.
- Skill :- C, CPP, DSA, ROS and Gazebo, 3d model designing, PCB soldering etc.
- Software tools :- Stm32cubeide, VS code, VisualStudio, Gazebo Simulator linux, etc. [Explore more...](#)

**Advanced Linefollower Robot (encoder motor)**

- For japanese style linefollower competition.

## COLLEGE PROJECTS

**IoT Based Weather Station and Home Atutomation using esp32 (Major project)**

- It can measure pressure, temperature, humidity, presense of rain, display data

on smarthphone or any other internet connected device and controller home appliances.

- Hardware:- ESP32, BMP180, DHT20, 5V relay, AMS1117, BC548, etc.
- Tools:- Arduino IoT cloud, Soldering kit, etc. [Explore more...](#)

**Automatic Washroom Light Controller using ir led and stm32 (Minor project)**

- Detects presence of person in washroom and control lights accordingly. [Explore more...](#)

## Skills

**Programming languages:**

C, CPP, DSA

**Hardware:**

Stm32 programming, PCB designing, Embedded system and design, Arduino.

**Platforms:**

Eclipse, STM32cubeide, easyeda, kicad, VScode, visual studio, Fusion360, ArduinoIDE, Gazebo.

**Other Skills:**

3d designing, ROS, Git, Touch typing (70wpm+), Vim, Linux. [Work examples...](#)

## Achievements

- II Position In Micromouse competition (IIT Bombay) [2022]
- III Position In Line-follower robot competition (IIT Ropar) [2019]

## Personal Details

**Hobbies:-** Robotics, Electronics, Reading books, Spirituality, Gardening.

**Languages:** Hindi, English(intmd.)



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