# SURAJ KUMAR

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## PROFESSIONAL SUMMARY

As a currently ECE student, I want to obtain a position to utilize my technical skills, experience, and willingness to learn in making an organization successful

## TECHNICAL COMPETENCIES

C++ | PYTHON | Verilog| VHDL



## INTERPERSONAL SKILLS

Self Motivated Attitude |Team work| Ability to rapidly relationship and set up trust | Helpful and Problem Solver | Workaholic

## INTERESTS & HOBBIES

Microprocessor **|** Gaming **|** Music

## LANGUAGES KNOWN

English **|** Hindi **|**

## PERSONAL DETAILS

Mother Name: Madhumani Devi

Father's Name: Shailendra Prasad Sah

DOB: 24/09/1999

Nationality: Indian

## EDUCATION

Bachelors in Electronics and Communicational Engineering | Chandigarh University, Gharuan
*Session: 2018-2022 | Score: 7.6 CGPA*

Intermediate (BSEB) |A.N.S +2 HIGH SCHOOL, BARH
*Session: 2016-2018 | Percentage: 64.8%*

Matriculation (CBSE) | DAV PUBLIC SCHOOL, MOKAMA
*Session: 2014-2015 | Percentage: 85.5%*

## PROJECTS

**HOME AUTOMATION (2018)**
The first project in my college. In this project we make a device that control the electronic and electrical components through mobile and via voice command

**Hand gesture to speech conversion using Arduino Microcontroller (2020)**
Led the team to successfully complete the project who are speech-imparied face difficulty in communicating with others who do not know the sign language. The project aims at eliminate this communication gap.

**Arduino Radar (2019)**
This Arduino Radar Project is implemented with the help of the Processing Application. Radar is a long - range object system that used radio waves to establish certain parameter of an object like it's range, speed and position.

**Traffic Light Controller(2 way) (2020)**
The traffic light controller in VHDL is used for an intersection between highway and farm way. There is a sensor in the farm way side to detect if there is any vehicle on the farm way. If vehicles are detected on the farm way, traffic light on the high way turns to YELLOW, then RED so that the vehicles from the farm way can cross the high way.

## CERTIFICATIONS & AWARDS

- Introduction of AI (Coursera)
- Introduction of cloud computing (Coursera)
- Introduction of deep learning (Coursera)
- Introduction of machine learning (Coursera)
- Operating system (Saylor)

## PATENT

**Multipurpose wearable device**
In this work, we propose the shoe which is fully controlled by smart phone or remote. Here, all controlling is done by NODEMCU (open source IoT platform) controller which controls the entire system component.  It looks like a Skate shoes but there is some feature which makes it novel from Skate shoes.   We can do that process in reverse also. So, here is some benefit that your gadget will be utilized as a shoe and skates at a same time.  Now, come to technical point of view, this gadget is fully electric and we command with phone or remote to move one place to another.  Here; we use a powerful rechargeable battery as a power source of our gadget. This gadget is so easy and comfortable that even 10 years old boy can operate this