

SUKARN PAHUJA

ECE(BIOMEDICAL) ENGINEER

Passionate in the belief that development in electronics and communication is essential for the growth of technology in this fast growing world and success of an organization that wishes to scale and achieve higher levels of profitability. Hardworking and determined work handler who wishes to serve a reputed organization or a firm with utmost intent .

sukarnpahuja@gmail.com

9711600080

SEC-19B,DWARKA,NEW DELHI, India

linkedin.com/in/sukarn-pahuja-678121179

github.com/sukarnpahuja

EDUCATION

INTERMEDIATE

INDRAPRASTHA INTERNATIONAL SCHOOL

CGPA(10TH)- 9.8

PERCENTAGE(12TH)-95.2%

04/2004 – 04/2018

DWARKA

Courses

PCM WITH INFORMATION PRACTICES

BACHELORS IN TECHNOLOGY

VELLORE INSTITUTE OF TECHNOLOGY

CGPA(AS OF 3RD SEMESTER)- 8.6

07/2018 – Present

VELLORE

Courses

ECE WITH SPECIALIZATION IN BIOMEDICAL ENGINEERING

SKILLS

- **HARDWARE**
 1. ARDUINO
 2. FPGA
 3. MICROCONTROLLERS
 4. ICS
 5. SENSORS
- **PROGRAMMING LANGUAGES**
 1. C/C++
 2. PYTHON
 3. HTML
 4. MYSQL
- **SOFTWARE**
 1. LABVIEW
 2. MULTISIM
 3. ARDUINO IDE
 4. VERILOG HDL
 5. MATLAB
- **CO-CURRICULAR**
 1. EVENT MANAGEMENT

2. SPONSORSHIPS

PROJECTS

- **TERRAIN SENSING SHOES (07/2018 – 11/2018)**

THIS project brings advancement in shoe technology having various applications from fashion industry and extending to defense equipment s. The shoes are covered with led's over it and are fitted with a color sensor. The sensor would detect the color of the ground and the led's of that color would glow with intensity management done through arduino.

Selected by INFOSYS.

- **TRAFFIC LIGHT CONTROLLER USING VERILOG AND FPGA IMPLEMENTATION (07/2019 – 11/2019)**

This projects highlights the working of traffic light system in a country like india which has huge amount of traffic on roads for smooth running of vehicles in roads and accident prevention

This project uses sensor interpretation and directs the output to verilog HDL where the working of the traffic lights, delay and test bench coding is initiated.

- **TUMOR DETECTION USING MATLAB (06/2019 – 11/2019)**

This projects takes MRI images of different parts of the body as input and detects and hughlights the portion where the tumor is present for early detection and removal of cancer cells.

- **INDUSTRIAL POLLUTION MONITORING SYSTEM USING LABVIEW AND ARDUINO (07/2019 – Present)**

This project analyses the detects the pollution levels in industries like chemical,brick. .

Gas sensors are used to detect the amount of smoke or pollutant which outputs the data to arduino which then provides the data to labVIEW software for further analysis through LINX

PERSONAL PROJECTS

SMART HELMET FOR OLD PEOPLE USING ARDUINO AND GSM (08/2018 – Present)

This project aims to provide a helping hand to poor people who live alone and don't have anyone for their support. This helmet has piezoelectric sensors fit onto it connected to arduino and GSM.

If a person falls or gets injured, the piezo sensors would indicate a fault and a message would be sent to the person's relative(s) through GSM along with their location using GPS sensor

ACHIEVEMENTS

- TERRAIN SENSING SHOES PROJECT SELECTED BY INFOSYS (10/2018 – Present)
- PUBLICATION ON NON ACADEMIC ZONE (12/2018 – 03/2019)

ORGANIZATIONS

- INSTITUTION OF ENGINEERS(INDIA) (06/2019 – Present)

CORE COMMITTEE MEMBER-TECHNICAL DOMAIN

- VIT SPARTANS (11/2018 – Present)

CLUB MEMBER-MANAGEMENT AND TECHNICAL

- BIF NGO(12/2019-PRESENT)

CORE COMMITTEE MEMBER-SPONSORSHIPS AND RESOURCE AND DEVELOPMENT

CERTIFICATES

ARDUINO PROGRAMMING (08/2018 – Present)

LANGUAGES

- **ENGLISH**- PROFESSIONAL PROFICIENCY
- **HINDI**-PROFESSIONAL PROFICIENCY
- **GERMAN**-INTERMEDIATE PROFICIENCY

INTERESTS

- ARDUINO
- FULL STACK DEVELOPER(BACKEND+FRONTEND)- HTML,CSS,JAVASCRIPT,NODEJS
- ARTIFICIAL INTELLIGENCE
- MICROCONTROLLERS
- TELECOMMUNICATIONS AND ANALOG ELECTRONICS