Apoorva Vikram Singh

B.Tech
Electronics and Communication Engineering
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ACADEMIC BACKGROUND

Education Level	Board of Education	Institute	Completion Year	CPI/%
Undergraduate	CFTI	PDPM IIITDM Jabalpur	2021	7.3
Intermediate	CBSE	Inspiration Sr. Sec. School	2016	89.2
Matriculation	CBSE	Green Wood Public School	2014	10

PROJECTS

- **Identification of Watermarked original image and finding the tempered area of any image using Image Processing.** *(January 2018 – April 2018)*
  This project basically aims towards finding our original image by the use of watermarking as well as finding the area of the image which has been tempered. This project may helps in keeping a check on piracy.
  Software: MATLAB.
  Github link: https://github.com/Apoorvavikram/watermarking

- **Control and Path planning of 3D printed Exoskeleton for Monoplegia Arm Paralysis controlled using Electroencephalography.***(February 2019 – Present)*
  This project aims towards building a affordable custom made exoskeleton for paralysis stricken patients. This exoskeleton provides the 6 degrees of freedom from the shoulder to fingertips giving the desired control over the actions. The hand is controlled using electroencephalogram signals and is actuated using DC servomotors.
  Softwares: Arduino IDE, Proteus.

- **Control and Path planning of 3D printed Transradial Prosthesis with adaptive fingers using Electromyography** *(September 2018 – February 2019)*
  This project aims towards building a affordable custom made prosthesis for transradial amputees. This prosthesis provides the basic functionality of a hand with three adaptive fingers for controlled grip.
  Softwares: Arduino IDE, Proteus.

- **Fabrication of 14*10 LED Matrix and making a Tetris game using ATmega16 microcontroller.** *(March 2019)*

  A tetris game was made on a 14*10 self-fabricated LED matrix and coding ATmega16 microcontroller. The game was a experiment to check how LED matrix works with Atmega16 microcontroller.

  Softwares: Proteus,CVAVR.

  Github link: https://github.com/Apoorvavikram/LED

AREAS OF INTEREST

- Internet Of Things
- Embedded Systems

TECHNICAL SKILLS

- C programming
- Python programming
- MATLAB programming
- Arduino Microcontroller
- ATmega
- Microprocessor 8085
- Proteus 7.7

POSITIONS OF RESPONSIBILITIES

- Event coordinator of event named LED Matrix under electronics club at annual technical fest,Abhikalpan of IIITDMJ.
- Event coordinator of event of one-act under drama society at annual cultural fest,Tarang of IIITDMJ.

PERSONAL INFORMATION

- Language Proficiency: English, Hindi.
- Address: Kushmouth,Shaktifarm,Sitarganj,Udham Singh Nagar, Uttarakhand.
- Hobbies: Literature, Poetry.
- Extra-Curricular Interests: Drama, Script writing.
- Sports: Basketball.