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Objective

Seeking a position in an organisation/team where I can develop ground breaking and innovative products and services to leverage my Engineering and Problem-solving Skills.

Work Experience

1) Inochi Care Pvt. Ltd (Oct 2020 – Currently)

Healthtech Start-up based in Delhi, working on advance wound care Management.

- Developing a system for wound image assessment to find out the healing rate of the wounds.
 - Developing drivers for sensors on STM32 Platform.
 - Designed and Developed a SoM based on NXP i.MX RT1160 MCU.
 - Writing code for Data collection and analysis of Multi-Therapeutic wound healing device. Data includes various sensors and performance metrics that were exposed through the API.
 - Developed QT based GUI on raspberry pi for product testing and data logging.
 - Designed a PCB to integrate power Sections, Various sensors and SOM.
 - Responsible for creating and executing the Product Production plan, DFM and BOM Optimisations.
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Projects

1. *Pothole detection and driver safety system* (2019-2020)

- Built a system that monitors the pothole and driver's attention level from a moving vehicle to avoid accidents caused by potholes and human error.
- It works by alerting the driver if there are potholes on the road and the driver is distracted.
- Link – Under development | **Stack used** – Python, OpenCV, TensorFlow

2. *Face Recognition system* (2018)

- Coded a script that can save and recognise faces in real time. A SQL database is used to store the details of the users and show them while recognising.
- Link - https://github.com/shekhuverma/face_recognition | **Stack used** -Python, OpenCV, Image processing, SQL

3. ***Motion Tracking Mouse*** (2017)

- Created a Python app to control the Computer's mouse through tracking hand movements of the user using a webcam.
- Link - <https://github.com/shekhuverma/MSIT-SUMMER-PROJECT> | **Stack used** - Python, OpenCV, Image processing

Key Technical Skills

1. ***Programming Languages*** – Python, C
2. ***Libraries/Frameworks*** –QT/QML, OpenCV, TensorFlow
3. ***Tools*** - STM32CubeIDE, Git, KiCAD
4. ***Embedded Hardware*** – STM32, RP2040, Raspberry Pi, Arduino
5. ***Protocols / Technologies*** – MIPI-DSI , USB
6. ***Fields of interest*** – Programming, Computer Vision, IoT, Image Processing, High-Speed PCB design.

Achievements

- 1) Awarded IEEE ASET Student Volunteer of the year **(2017-2018)**
- 2) Project Selected for the MSIT Summer camp **(2018)**

Publications

Presented a Paper titled “Design and Development of Driving Assistance and Safety System using Deep Learning” in International Conference on Emerging Trends in Science & Technology PCMT, Kolkata, India (August 2020)

Internship

- 1) 4 Week internship at BEL (Bharat Electronics limited) **(2019)**

Volunteering Work

- 1) ***IEEE MTT-S Secretary (2017-2018)***
 - Navigated various hardware projects in the campus
 - Conducted 3 workshops on topics - Embedded systems, RFID, Arduino UNO
- 2) ***IEEE-ASET Technical Coordinator (2017-2018)***
 - Technically aiding IEEE ASET works and events
- 3) ***Graphic Designer in IEEE ASET student branch (2016-2017)***
 - Responsible for Designing Posters and illustrations for Various IEEE ASET events and workshops
 - Conducted a workshop titled “Basics of Adobe Photoshop”

Academic Qualifications

Amity School of Engineering and Technology, Bijwasan (2016-2020)

Guru Gobind Singh Indraprastha University (GGSIPU), Delhi

B. Tech, Electronics and Communication Engineering (75%)

MDH International School CBSE, Delhi (2015-2016)

PCM Non-Medical with computer science (Python) (88%)

MDH International School CBSE, Delhi (7.8 CGPA) (2013-2014)