Kumar Gaurav

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SUMMARY

Seeking an Entry level job in a company that inspires me to expand my learning, knowledge and skills, while providing significant contribution to the organisation- ***Available for immediate joining.***

SKILLS

- C programming
- Embedded C programming
- Basic Power Electronics
- Python programming
- STM32 peripheral knowledge
- Embedded system Architecture
- PCB designing
- Communication protocols
- MATLAB Model based designing
- Li-Ion batteries
- Protocols : SPI I2C UART
- Microsoft office Tools

WORK EXPERIENCE

RENON India Pvt Ltd, Surat, India
Design Engineer **April 2021 – July2021**

- Part of the battery pack design and development for 2W and 3W, successfully completed prototype for 2W and 3W battery pack.
- Did product conceptualization, pre-prototyping and prototyping of battery packs for various application like E-bikes, wheelchair, Inverter,2-Wand 3-W.
- Identification of failure analysis and Identification of root cause in Battery management system.
- Documentation of work instructions, authoring test reports, DVPR and operation and installation manual and for designed products.
- Managing vendors, supply chain and customer enquiries and services as required.

RENON India Pvt Ltd, Surat, India
Battery Pack Development Trainee **Oct 2020 – Apr 2020**

Part of the team as an intern in developing battery packs for solar and electric motor application and introduction to Li-Ion cell testing procedures.

- Conducted Li-ion Cycle-life tests on various LFP and NMC cells.
- Successfully developed an ESP32 based Data visualization.

- Debugging on electronic circuits like MPPT, PWM controllers for solar application and Battery Management System from 4S to 20S

FISAT FABLAB, Kochi, India
Research Project Intern **Feb 2019 – July 2019**

Part of the FISAT Fablab community for a project in developing electric vehicle.

- Operations and Maintenance on 3D printers, Laser Engraver, CNC machines and other digital fabrication equipment.
- Designing basic electronic circuits for hardware and embedded systems.
- Research and Development work on developing an Electric motor kit for EV conversion of vehicles.

EDUCATION

- Masters in Engineering (M.E) in Automotive Embedded Systems (2019-2021)

ESIGELEC, France. **CGPA: 6.8**

- Integrated Master of Science(Msc) in Automotive Embedded Systems, (2019 – 2021)

Manipal University, India. **CGPA : 6.8**

- Bachelor of Engineering in Electrical and Electronics engineering, (2014-2018)

Federal Institute of Science And Technology (FISAT),India. **CGPA : 6.3**

PROJECTS

1. **OBSTACLE AVOIDANCE USING WIFIBOT ROBOT | ESIGELEC| JULY 2020**
    - Developed algorithm to detect obstacles using Sensors
    - Implemented TCP/IP protocol for communication.

2. **NUMBERPLATE RECOGNITION USING OPENCV | MANIPAL | Oct 2019**
    - Developed algorithm using python programming language
    - Used raspberry- pi to integrate using Pi-Camera

3. **HYBRID TWO WHEELER | FISAT FABLAB, KERALA | JULY (2019)**
    - Constructed a Hybrid – Electric 2-wheeler
    - Designed and developed custom battery pack
    - Implemented regenerative braking using.

LANGUAGES

- English(Professional)
- French (Basic)
- Hindi(Professional)
- Kannada(Professional)
- Malayalam(Professional)
- Tulu (native Proficiency)

HOBBIES

Adventure quests, Delving cars, shuttle badminton, Football, LAN gaming, Motion Picture.