

YUVRAJ VARMA

yuvrajvarma26@gmail.com ◇ <http://www.linkedin.com/in/yuvraj-varma-5390b1197> ◇ <https://github.com/Yuvi2630>

Baramati, dist.Pune, Maharashtra

+917558402559

WORK EXPERIENCE

Piaggio Vehicles Private Limited, Baramati

Sep 2024-Present.

Role : Graduate Engineer Trainee

Battery Testing and Validation(R&D)

- Hands on experience of testing and validation on battery so that it meets its specified characteristics, such as capacity, voltage , and cycle-life
- Good knowledge of identifying potential reliability issues, such as cell-cell variations, electrical connections and mechanical integrity
- Involve in Design validation process so that the battery design meets specifications, pack , design, thermal management and industry standards
- Hands on experience of battery under abusive conditions, such as overcharge, over-discharge, and short-circuit
- Involved in Environmental test the battery under various environmental conditions, such as temperature, and vibration
- Good Knowledge Regulatory Compliance Validates and ensures that the battery complies with relevant industry standards, regulations, and certifications, such as ISO,AIS,JASO,DIN,IEC,NORMA standard
- Hands on experience in troubleshooting of Battery and analysis using Power BI

Design Engineer(R&D)

- Hands on experience in System Integration, System Validation, and troubleshooting of all EV Related Components
- Involve in build and Validation support for prototype Vehicles
- Good knowledge of DVP, FMEA , and DFMEA Sign off with supplier Component and System Level
- Hands on experience in diagnostics and flashing activity Support for system trials and validation
- Contribution in resolution of production issue

System Integration and Validation (R&D)

- Hands on experience in System Integration, System Validation and development Co-ordination with design,3D models, suppliers and internal design teams
- Involve in Validation and planning Execution at components, system and vehicle levels
- Involve in testing, pre-compliance and homologation activities and execute system and full electrical and electronics components and system level testing on vehicle
- Good knowledge in diagnostics and strategy definition for DTCs, DBC for each components and full vehicle
- Hands on experience in troubleshooting of EV and ICE vehicle with RCA,PCA and ICA
- Expert in Validation and Testing of instrumental cluster, telematics
- Hands on experience in Testing various EV Components such as Handle-bar, Handle-bar Switch, Cluster, DC-DC, Power-train
- Involve in EMI/EMC Test on the Vehicle

- Good Knowledge of CAN, I2C, LIN. RS485

PROJECTS

Smart Environment Monitoring System Based on IOT

Aug 2023 - Oct2023

- Created and installed Smart Environment Monitoring System Based on IOT in Wagholi for measuring the Air quality
- Leveraged MQ7,MQ135,DTH11 for sensors for measuring the Air quality
- Connected to Blynk Application through Esp32 and can keep track of Air quality via Smart-Phone

Smart Dustbin

Oct 2022 - Nov 2022

- Created and install Smart Dustbin to perform contact-less Cleaning process
- Leveraged Arduino UNO, Ultrasonic sensor, Servo motor, Battery for making the Smart Dustbin

Design PCB Plate

April 2023 - April 2023

- Developed a design in MATLAB with requirements and printing the traces
- Leveraged Solutions for getting off the cover of PCBplate and connecting it with the components

Steganography

Oct 2024 - Oct 2024

- The System should allow users to perform hiding data within an ordinary, non-secret file or message to avoid detection
- Leveraged C and Bitmap Image file for the image format for encoding and decoding

EDUCATION

B.TECH ENTTC, G.H. Rasoni College of Engineering and Management, Pune

CGPA : 7.29

2020 - 2024.

Class XII, Vishwanathsingh Bayas Arts and Science Junior College, Pusad

Percentage - 67%

2019 - 2020

Class X, Jyotirgamaya English School, Pusad

percentage - 87.02%

2017 - 2018

TECHNICAL SKILLS

- **Programming Languages** : C,C++, Python, CAD
- **Tools** : CANLYSER, E-DAQXR, DEWESOFT, V-BOX RACELOGIC, OSCILLOSCOPE, KEYSIGHT ,MAT-LAB

SOFT SKILLS

- Effective communication skill.
- Adaptability.
- Teamwork and Collaboration.
- Time Management and Organization.