

JOB DESCRIPTION FOR POWERTRAIN ENGINEER

Required Qualifications/credentials:

- B.Tech Electrical Engineering, 1-2 year exp.
- Preferred members of tier-1 institute's Formula student or other E-Motorsports teams.

Primary Responsibilities include, but not limited to:

- Powertrain Designing of Electric and hybrid Electric vehicles (Motor, Drives, gearbox, battery)
- Electrical Systems architecture design (Power flow and Signals flow) (ECU and BMS)
- Component Selection of Powertrain
- Component Selection of the Electrical auxiliaries (Brake and steering systems, PDU, Lightning, Instrument Cluster)
- Harness Design (HV and LV)
- Assembly and implementation on the vehicle
- Testing and validation protocol

Required traits:

- Strong knowledge of Motors, Drives and Batteries, power electronics
- Well experienced of working with HV components.
- Sound system level knowledge of vehicles. Experience in automotive environment.
- Additional Experience in Electric-hybrid vehicle and BMS, ECU's will be preferred
- Proficient with Analog and digital circuit designing
- Knowledge of MCU's a plus
- Should be well acquainted with automotive standards