



What we're looking for?

As we are in the quest of building the very first automotive test facility of Nepal with several state-of-the-art test capabilities such as powertrain test cell, battery vibration and shock test rig, fatigue rig and bump roller rig - we are looking for a candidate to work on various sensor and instrumentation devices. This person has to take extreme ownership of the project and possess the ability to learn quickly.

Responsibilities

- Interface with sensor and measurement devices
- High Bandwidth data acquisition and processing of analog and digital signals from sensors
- Selection of ground level components and development of schematics and PCB design for different parts of the system such as ADC, instrumentation amplifier, noise suppression filter, and so on.
- Conduct SPICE simulation
- Design and development of low voltage circuit for precision measurement
- Calibration of test setup including pressure transducers, transmitters, load cells, temperature transmitters, and test-bench instruments such as multimeters, process calibrators, thermometers, etc.
- Maintain instrumentation equipment, in a state of readiness, to support test programs

Requirements

- Technical understanding of data acquisition and instrumentation interface/communication
- Experience in electronics (hardware) development
- Ability to read schematics and component data sheets
- Familiar with C/C++ and its libraries
- Good knowledge of Digital Signal Processing
- Ability to understand and localize potential noises and interference sources in schematics and PCBs, and finding solutions to minimize them
- Experience with various digital and analog electronics, such as operational amplifiers and their variations for analog signal processing, analog switches and multiplexers, ADCs, MCU/CPU, logical digital devices, and communication interfaces (SPI, I2C, UART, CAN), etc.
- Knowledge of RTOS is nice to have.
- Hand on experience with lab equipment such as oscilloscopes, voltmeter, function generator, amplifiers, and so on.

Benefits

- Gets to play with cool things such as sensors, actuators, and control systems and test the heck out of systems
- Health insurance with 100% premium covered
- Generous PTO / sick leave
- PF plan with employer match
- Free lunch and snacks
- Annual company retreat
- Bring your dog to work 🐕
- Work in a high-growth start up that will redefine urban mobility

About Us

Yatri was founded in 2017 to prove world-class electric vehicles can be designed, engineered and manufactured from the ground up in Nepal - that switching to electric does not have to be a compromise but better, quicker and kinder to the planet.

Send your resume and cover letter to careers@yatrimotorcycles.com and mention 'Application - Job Title' in the subject line.