Shrishgovind Umesh Revankar

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EDUCATION

Stevens Institute of Technology | Hoboken, NJ, United States **Expected May 2026**
Master of Science, Computer Engineering
Concentration: Embedded Systems
Fr. Conceicao Rodrigues College of Engineering | Mumbai, Maharashtra, India **May 2022**
Bachelor of Engineering, Electronics Engineering

SKILLS

Programming Languages: Embedded C, C++, Python, .NET Framework,
Software Packages: Arduino IDE, Renesas CS+ for CA/CX & CS+ for CC, Proteus, KiCAD, Cadence, CAN Busmaster, Peak CAN, Visual Studio, SolidWorks, Keil uVision5, LTSpice, Vitis & Vivado (FPGA).
Hardware Skills: Wire & PCB Soldering, Debugging, PCB Designing, Waveform Generator, Oscilloscope, Logic Analyzer, EMI/EMC Testing.

EXPERIENCE

Tork Motors Pvt. Ltd. | Pune, India **June 2022 – May 2024**
Research & Development Engineer (Electrical & Electronics)

- Designed and implemented a Hardware-In-Loop (HIL) system using a Renesas-based automotive-grade controller for the motorcycle's Vehicle Control Unit that improved the production efficiency by 20% and added data encryption to improve the trackability of the VCU.
- Developed an automotive cluster using Raspberry Pi for a prototype vehicle that relays CAN Data from the vehicle to the display.
- Played a key role in the 3-Wheeler project, which used a Renesas-based automotive-grade controller by designing production cluster software adaptable to multiple vehicle variants, achieving a 10% improvement in system efficiency.
- Initiated the development of a proprietary software application using .NET Framework for automating CAN tests, streamlining the testing processes, improving the testing efficiency by 30%, and considering additional test cases.
- Supported EMI/EMC compliance testing at ARAI for EV motorcycle systems and automotive clusters, contributing to the diagnosis of interference issues and design improvements for certification readiness.

Kalyani Powertrain Pvt. Ltd. | Pune, India **January 2022 – February 2022**
Intern

- Researched battery thermal management systems in the E-Mobility division to improve EV performance and safety.
- Developed insights into the EV development cycle, from component-level research to system-level engineering.

CRCE Formula Racing | Mumbai, India **March 2019 – September 2021**
Electronics Head

- Formerly part of a Formula Student team, was responsible for wiring the new engine and designing the air intake system as part of the Fluid Mechanics System.
- Optimized the electrical system, used the CAN tool to get engine data, and developed a Data Acquisition System to get overall vehicle data.
- Developed an Arduino-based system that converts Manual Sequential Transmission to Semi-Automatic Transmission using a DC Motor, which improved the overall lap times in the race.
- Developed Brake System Plausibility Device (BSPD), which is an analog safety device with comparators and a timer IC to shut down a vehicle if the driver panics and simultaneously engages both brakes and accelerator. It restarts the vehicle after 10 seconds.

PROJECTS

Robotic Nurse

- Developed a robot using ESP8266 to remotely operate to specified locations using a mobile application using IoT Protocol.
- Robot acts as a nurse that will help deliver medicines and food to patients in a quarantined room, to minimize human-to-human interaction.