HARISH KISHORE

Nationality: Indian Date of birth: 13 Jan 1998 Gender: Male Phone number: (+91) 7708492924

Email address: mr.harish90@gmail.com

LinkedIn: www.linkedin.com/in/harish-kishore-452228164

Address: no.15, 2nd floor, SNT Street, Gupta layout, Bangalore – 560008. (India)

ABOUT ME

Experienced Embedded Software Engineer with 2 years of expertise in embedded systems and automation testing. Highly skilled in C programming, CAN communication, microcontroller configuration, and software testing, with a proven track record of utilizing these technologies to drive significant business value. I am passionate about leveraging embedded systems solutions to solve complex problems and enhance organizational performance.

SKILLS

Programming language: Proficient in C and Basic knowledge of Python

Microcontroller: STW (ESX.3cs), Texas instruments (EK-TM4C123GXL [ARM Cortex-M4])

Communication protocols: CAN, J1939 and RS232.

Hardware: Basic knowledge of embedded hardware and ability to understand schematics

Software: Code::Blocks IDE, peak CAN explorer, Pulseview, and Pycharm

Microsoft Office 365 (Word, Excel, PowerPoint)

WORK EXPERIENCE

Embedded Software Engineer

Rotzler Service Private limited [April 2022 – Current] City: Bangalore, Country: India

- Developed and maintained software modules for winch applications using C programming, ensuring continuous updates and software integrity.
- Configured and Tested STW controller inputs and outputs for various configuration, such as pull-up, pull-down, active high, and active low for digital inputs. Analog inputs current and voltage, and digital and analog outputs for controlled current and voltage. Documented detailed test reports.
- Managed software modules from conception to deployment, ensuring adherence to software development life cycle (SDLC) practices using Github and documentation like release notes.
- Experience in integration testing, functional testing, system testing using simulator, acceptance testing & regression testing. Documenting results and supporting software validation processes.
- Developed test plans and test cases for performing both manual and automated testing to validate software requirements. Utilized dynamic analysis techniques to assess runtime behavior and performance characteristics. Analyzed test results, reporting defects via GitHub issue tracking and following the Software Development Life Cycle (SDLC). Worked closely with developers to reproduce, debug, and resolve issues, ensuring software quality and reliability throughout the testing process.
- Utilized laboratory equipment such as digital multimeter and logic analyzers for debugging and verification.

PLC Programmer Intern

SRG POWER CONTROL SYSTEM [MAR 2021 – OCT 2021] City: Coimbatore, Country: India

- Developed and tested PLC programs for various automation projects using languages such as Ladder Logic Designed and implemented control systems for industrial machinery and Gained hands-on experience with various PLC platforms, such as Siemens, Allen-Bradley(ABB)
- Collaborated with cross-functional teams to integrate PLC systems with SCADA and HMI interfaces.
- Performed regular maintenance and updates on PLC hardware and software to ensure smooth and continuous operation.
- Documented PLC programming processes and created detailed technical reports for project tracking.

PROJECTS:

Development and Testing on Hydraulic Power Unit for NG-15 Winch

- **Project Scope:** Developed and tested the Hydraulic Power Unit for the NG-15 winch, focusing on optimizing engine state management and power requirements.
- **Implementation:** Implemented multiple states for the Engine State Machine using switch cases to determine winch power requirements, significantly enhancing system efficiency and performance.
- **Configuration Management:** Created efficient structures for loading configuration values into header files, eliminating hard coding and improving code maintainability.
- **Testing:** Developed and executed comprehensive test cases for integration testing, functional testing, and system testing using simulators.
- **Documentation:** Authored detailed test cases and prepared comprehensive testing reports, providing clear insights into system performance and reliability.

Development and Enhancement of Software Module for Treibmatic Recovery Winch

- **Project Scope:** Enhanced the existing Treibmatic recovery winch software by adding a new high-speed mode to complement the existing load and speed modes as per the customer requirement.
- **Implementation:** Integrated the high-speed mode by adding a new case in the switch statement and incorporating the required logic and features for the new mode.
- **Documentation:** Authored detailed release notes and developer reports, outlining the newly added features and changes.
- **Collaboration:** Released the updated build for testing, ensuring thorough communication with the testing engineer to facilitate efficient validation and troubleshooting.

EDUCATION AND TRAINING

Bachelor of Engineering – Electronics and instrumentation
Kumaraguru college of technology [June 2016 – Apr 2019] – Coimbatore, India.

PG diploma course in Embedded and Automotive systems
Cranes varsity Institute [Sep2021 - Mar 2022] – Bengaluru, India.

Diploma course in Industrial Automation
Saradha Skill Academy [Dec2020 - Feb 2021] – Coimbatore, India.

Preliminary workshop in YOKOGAWA based distributed control systems (DCS)
Kumaraguru college of technology [Jan2019 - Apr 2019] – Coimbatore, India.

COMMUNICATION AND INTERPERSONAL SKILLS

- Excellent social and interpersonal skills, ability to work with peers locally, internationally over multiple time zones and different cultures.
- Self-confident, self-starter, team-oriented, high energy with ethics, integrity, and finesse.
- Excellent reporting and negotiation skills gained through my experience.