

Automation Engineer, Embedded Software Group

There's an evolution happening in Avon, CT. iDevices, a preeminent brand in the smart home industry, is building "The Silicon Valley in the Farmington Valley". With a comprehensive product line of both plug-and-play and in-wall solutions, iDevices manufactures connected power, lighting, and climate control solutions for homeowners, professional installers, and builders alike. iDevices seamlessly connects people to their worlds with sophisticated technology that enhances everyday life. If you thrive at the intersection of Technology and Creativity – then we want you to join our evolution!

We are seeking an Automation Engineer to work within our Embedded Software Group. This role is responsible for working with the development team to create and execute comprehensive automated test plans and test cases, build and maintain the automation framework, create custom tools to support hardware test interfaces and virtual components, and conduct manual testing with an eye toward increasing automation.

Responsibilities

- Key contributor of an engineering team whose primary goals are to improve software quality through testing and to improve and automate testability of embedded software products
- Define, implement, and drive the future vision of the automation process and frameworks
- Develop and execute test plans and test cases with a strong emphasis on using code to shorten the test cycle through automation.
- Estimate test efforts, analyze and communicate test results, and participate in day to day development activities.
- Create specialized test tools to meet specific project needs
- Work with the development team to design and implement test and validation strategies
- Analyze and report on test and defect metrics
- Contribute to the build and maintenance of a continuous integration (CI) environment and ongoing process improvement activities.
- Evaluate and recommend new tools, technologies, and processes
- Communicate the benefits and best practices of test automation within the department and throughout the company
- Collaborate with system-level QA to support integration testing of embedded software products with apps or cloud components

Required Qualifications

- BS or MS in either Computer Science or Computer Engineering
- 3+ years experience in automation and software testing

- Experience with software testing and automated test techniques with a focus on quality through the development life cycle
- Experience with common test and debugging interfaces for embedded software development
- Knowledge of object-oriented programming along with requisite coding and debugging skills
- Demonstrated ability to translate functional requirements and use cases into working test plans and test cases.
- Experience with continuous integration/delivery systems
- Experience with test frameworks and TDD/BDD tools (e.g. Cucumber)
- Knowledge and understanding of network protocols, including TCP and UDP
- Experience with Unix shell scripting
- Excellent written and oral communication skills

Desired Qualifications

- Proficiency with Python and C/C++
- Prior work experience in embedded software development and/or testing
- Experience with building automated environments using virtual and cloud resources (Linux, AWS)
- Experience with static analysis tools
- Experience with Linux configuration and application development
- Knowledge of Bluetooth and Wi-Fi communications protocols
- Knowledge and understanding of network security concepts and cryptography
- Comfortable with instrumentation such as oscilloscopes, logic analyzers, digital multimeters, etc.

This is a full-time, on-site position in Avon, CT.