

Applications & Test Engineer

149 Twin Springs Road, Hendersonville, NC, 28792

In-House Position

HiViz Lighting is a technology company most well-known for building lighting for fire apparatus. Over the last few years, our business has transformed from legacy “dumb” circuitry to an embedded powerhouse. Our engineering team is rapidly expanding, and we’re looking to add an applications and test engineer to our team to ensure we’re putting products into the market that meet our first core value: “Excellent Product”.

Are you the type of person who thrives in figuring out a way to parse code most efficiently; who loves creating a script to automate a certain process, or develop a tool to help a production team do a job more efficiently? Do you live in the world of widgets and gadgets, play with Raspberry Pis for fun, and think the Linus <—> NVIDIA relationship is better than anything on The Bachelor?

This position will be responsible for developing software toolsets and conducting validation and regression testing of our software-based products, largely over CAN, LIN, and Bluetooth interfaces. To be successful, candidates should be experienced and proficient in working with the Python scripting language, and have a foundational level of capability reading and interpreting C and C++ languages. This team member will be responsible for writing software applications and toolsets, developing testing methodologies and test automation, and working with version control systems and bug tracking tools to help ensure every product we deliver to our customers is of the highest standard of excellence!

Responsibilities

- Writing internal as well as customer facing software applications using Python, C#, JavaScript, C/C++, or others.
- Develop and execute test plans, test cases, and test scripts to ensure the quality and reliability of software products.
- Collaborate with cross-functional teams to understand product requirements and identify test scenarios.
- Design and implement automated tests to streamline the testing process, validation process, and improve efficiency.
- Perform manual testing and debugging as needed to validate software functionality and identify defects.
- Document and track defects using issue tracking systems, and work closely with developers to resolve issues.
- Participate in code reviews and provide feedback on software quality and testability.

- Continuously improve testing processes and methodologies to enhance product quality and team efficiency.
- Create and maintain documentation for systems and products that will be used both internally and externally.

Skills and Competencies

- Proficiency in *programming languages* such as Python (primary), C#, JavaScript, and C/C++.
- Proficiency in *test automation* tools and frameworks such as PyTest (primary), Selenium, Appium, or others to automate repetitive test cases and improve testing efficiency.
- Proficiency with *version control systems* such as Git to manage test scripts and collaborate with other team members.
- Proficiency with *data serialization file formats* such JSON and YAML to read/write configuration data.
- Strong knowledge of software testing methodologies, tools, and techniques.
- Strong analytical thinking, critical thinking, and problem-solving skills.
- Strong documentation skills with high attention to details.
- Strong communication and collaboration skills.
- Familiarity with database systems and SQL queries preferred, but not required.
- Familiarity with the terminal (bash, zsh) preferred, but not required.
- Familiarity with GTK+ preferred, but not required.

We have a fairly in-depth interview process because we *really* want to make sure you like us (and visa-versa)! These are the steps that you can expect:

1. Brief initial phone interview
2. 2nd interview (in person or via phone)
3. Follow-up interviews with HiViz Leadership team (via phone or in person)
4. Complete DISC and Working Genius Personality Quiz
5. Social interview with spouse or partner (if applicable)
6. Reference, credit & background check
7. Offer and review position and compensation

Other benefits

- 401k Plan (immediate, with company match after 12 months of employment)
- Health Insurance with company contribution immediately
- Vacation, PTO, and floating holidays
- Branded team clothing, company lunches and other team events
- Healthy, innovative team culture, due to people like you!