

Position Summary

Title	Test Automation Software Developer
Team	R&D
Location	Montreal
Employment Type	Permanent

Job Description

As a Test Automation Software Developer, you will join a group of highly skilled professionals, and you will be responsible for authoring test automation suites to run on Introspect Technology's leading-edge measurement and optimization tools. You will develop, execute, and document highly sophisticated algorithms primarily using the Python programming language, and you will create ground breaking measurement solutions for sensitive analog parameters. Using our award-winning Introspect ESP software, your work product will include specialized test cases for complex high-speed digital interfaces as well as complete automated software frameworks.

This position offers a unique opportunity to work at a rapidly growing global company and to serve leading edge technologies such as MIPI, PCI Express, USB, HDMI, and 100G/400G telecommunications standards. The position also offers the opportunity to gain a rich, multi-disciplinary system engineering experience.

The ideal candidate is a driven, self-motivated, and highly cooperative top performer who thrives in a flexible engineering environment. The ideal candidate also possesses characters of good judgment, communication, and eagerness to learn and adapt, and he/she is very helpful to his/her peers.

Responsibilities

- Architect and develop entire automation test suites for industry standards such as PCI Express, MIPI, USB, Display Port, and many others;
- Architect and design Python test cases for multiple variants of our products and with specific attention to behavioral interdependencies;
- Document usage models and options for the developed algorithms;
- Execute tests, analyze their results, and – most importantly – drill down into problems to a level that is easily reproducible by the design team;
- Understand product requirements and participate in project planning activities;
- Contribute to product collateral especially with regards to software and hardware release notes;

- Select hardware and software instrumentation for integration into the automation suites where applicable, and program such instrumentation using the Introspect ESP Software;

Qualifications

- Bachelor's or Master's in Electrical Engineering or an equivalent degree;
- Minimum of 3 years of pertinent experience;
- Thorough understanding of high-speed signaling principles;
- Deep knowledge of the Python programming language;
- Demonstrated problem solving and troubleshooting skills, and demonstrated creativity in regression test development;
- Knowledge of test tools such as oscilloscopes is a highly desired asset;
- Meticulousness combined with excellent organizational skills to achieve quality, cost and delivery objectives;
- Rigor: possesses a strong sense of organization, detailed execution in order to achieve quality, cost and delay objectives;