Position Summary

Title	System Validation Engineer
Team	R&D
Location	Montreal
Employment Type	Permanent

Job Description

As a System Validation Engineer, you will join a group of highly skilled professionals, and you will be responsible for the bring-up, integration, and validation of Introspect Technology's leading-edge measurement and optimization tools. You will build hardware and software infrastructure for integrating and validating our tools, and you will lead initiatives related to prototyping, emulation, and characterization, all the while relying on the latest analysis and test instruments in the industry. You will also report on system-level and/or software failures in a timely manner, and you will exercise every possible effort to root out corner cases and to champion a high software quality for Introspect Technology's products.

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 design Python test cases for multiple variants of our products and with specific attention to behavioral interdependencies;
- Select hardware and software instrumentation for integration into the Introspect Technology validation flow;
- Develop test fixtures and custom evaluation boards for ultra high-speed interfaces running at 32 Gbps and beyond;
- Creatively author test plans for individual tests or groups of tests, clearly documenting fault/bug coverage of key product features;
- 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;

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;