

Software Developer (Summer 2019 Co-op Term: 4 or 8 months)

Description:

Motion Metrics International is a fast-growing high-tech company that provides advanced monitoring solutions to the mining industry. Our products apply machine vision and other sensor technologies to provide actionable information to all tiers of users in the mine's hierarchy. We are looking for a software developer co-op to contribute to a project written in C++.

Responsibilities:

- Taking part in the design and implementation of new product features
- Writing tests for new and existing code
- Investigating and fixing software bugs
- Writing high-performance, maintainable, clean code
- Communicating with a small team to accomplish these tasks and participating in code reviews

Requirements:

- Working towards a Computer Science or Engineering degree with a focus on software
- Intermediate to advanced knowledge of C++, including familiarity with objects, pointers, using a debugger, and the C++ build process
- Understanding of OOP, data structures, algorithm design, multithreading, and complexity analysis
- Experience with Git or a similar version control system
- Interested in producing clean, maintainable, well designed code, and an openness to learning and applying new design techniques

Beneficial Skills:

- Experience with Boost, OpenCV, Qt, CMake, Python, Batch or Bash
- Knowledge of C++ 14/17 features
- Familiarity with BitBucket and Jira or similar platforms
- Experience with Google Test (or other unit testing frameworks)
- Familiarity with software design patterns
- A linked project portfolio (with source code) is a major bonus