

Machine Learning Position (Winter 2019 Term: 8 months preferred)

Description:

Motion Metrics International is a high-tech private company located on the beautiful campus of the University of British Columbia. We employ a diverse team of engineers and computer scientists who design, develop, and deploy advanced monitoring solutions for heavy-duty industries. Our products combine custom-designed rugged hardware and “embedded + cloud-based” software to address some of the most challenging problems in the mining industry by using imaging and other sensor technologies. We are a growing company with a global focus, with systems installed at over 60 mines and quarries on six continents.

Internship Objectives:

- Explore proprietary machine learning algorithms to provide advanced monitoring solutions for mining while meeting defined system requirements and constraints.
- Define validation and performance metrics for proposed algorithms.
- Create documentation including internal reports and conference/journal papers.

Required Skills

- Working towards Bachelors, Masters, or PhD in Electrical Engineering, Computer Engineering, Computer Science, Data Science, Statistical Science, or Mathematics.
- Minimum one year of hands-on experience developing and implementing machine learning algorithms, particularly deep learning techniques.
- Understanding of theoretical concepts of statistics/probability.
- Knowledge in image processing techniques.
- Proficiency in a modern programming language like Python or R.
- Excellent written, oral communication, and presentation skills.

Beneficial Skills

- Proficiency in programming language such as C++ or C#.
- Experience with deep learning frameworks: Caffe, TensorFlow, Theano, Torch.
- Experience with CUDA, OpenCL, or other GPU frameworks.
- Familiarity/experience with AWS, GCP.
- Experience in software development activities including version control, IDEs, profiling, deployment, and testing.

Motion Metrics International Corp. offers a competitive salary and a generous bonus at the end of your work term, depending on performance.