Part-Time Employment Opportunity:
Software Engineer/Developer - Computer Vision/Machine Learning

RCVLab, Dept. Electrical and Computer Engineering, Queen’s University

Location: Kingston, ON
Start Date: 1 Feb. 2021

Position Description: Software Engineer/Developer – Computer Vision/Machine Learning

Project Description: A Software engineers and/or developers is sought to join a team developing novel Computer Vision/Machine Learning methods for advanced robotic automation systems.

Job Description: The RCVLab has been researching and developing Computer Vision methods with an industrial partner, as part of an advanced robotic automation system. The methods have been developd using state-of-the-art Machine Learning techniques and software platforms, in particular Python and Pytorch. The next step in the project is to integrate the developed methods into a .NET platform to transfer to the industrial partner. The main task will be to develop a software system that facilitates the transfer of the developed methods to a format that is suitable for the industrial partner to use, and continue to develop upon.

Employment Term: The term is part-time, for a duration of 3 months, starting February 1st 2021, with a possibility of extension.

Candidate Qualifications and Role: Candidates should have excellent software skills, ideally with experience in both Python and .NET. An understanding of Computer Vision and/or Machine Learning is a benefit, as is a demonstrated practical ability to implement Computer Vision and/or Machine Learning methods. Excellent software development skills are essential, including experience with and an interest in robotics. Responsibilities will include:

- Meeting regularly with the research team to discuss the application and developed methods;
- Analyzing various alternatives to implement and interface to the existing code base;
- Identifying the industrial partner’s software infrastructure;
- Proposing various alternatives to integrate the existing code with the industrial partner’s platform;
- Developing a system that encompasses the existing code and allows interface with the industrial partner’s platform;
- Troubleshooting software and debugging issues as they arise;
- Documentation.

Candidates at both the graduate and Bachelors level will be considered. Please indicate in your cover letter your current program of study, and if currently enrolled, your anticipated course load this term.

Preferred Proficiencies: Experience with Python, Pytorch, and .NET is a benefit, although solid experience with other languages and development environments can be suitable. Experience with software engineering is required, as are excellent trouble-shooting skills.

How to Apply: Interested applicants should email a Cover Letter, CV and any supporting material to Prof. Michael Greenspan at michael.greenspan@queensu.ca using the subject line “RCVLab RA pos 018, 2021”. Only candidates selected for an interview will be contacted. Applications will be accepted until the position is filled.