

Summer Student Opportunity

Software Developer, Machine Learning/Computer Vision Summer Student 2023

Location: RCVLab, Queen's University, Kingston, ON

Start Date(s): May 2023

Position Description: Software Engineer/Developer

Project Description:

A software engineer/developers is sought to join a team developing a novel Machine Learning/Computer Vision methods for industrial automation.

Job Description: The objective is to integrate a suite of software methods that have been developed in a research environment, into a commercial industrial code base. The methods are Computer Vision routines for the detection and localization of industrial parts in a robotic bin picking cell. The research methods have been developed in Python/Pytorch under a linux environment, and are to be ported to C/C++ in a Windows environment, and integrated into an existing code base. There will also be the opportunity to optimize the code to meet performance goals, which could involve algorithmic innovations.

Work Environment: The individual will work under the direct supervision of Prof. Michael Greenspan, as part of a closely-knit and highly collaborative team, in a goal-oriented environment. The team includes graduate students at both the MASc and PhD level, as well as engineers and software developers in the collaborating industry. The work will take place at Queen's facilities in Kingston, and some provisions for remote work is possible.

Employment Term: The term is a duration of 4 months, ideally starting May 1st 2023.

Candidate Qualifications: The ideal candidate will be completing 2nd or 3rd year of an undergraduate program. Applicants should have a strong programming background and interest, with experience in both Python and C/C++. Experience developing under either a Windows or linux environment is an asset, and experience with both is preferred. Experience with either Machine Learning or Computer Vision is an asset.

Required Proficiencies: Python, C/C++

Preferred Proficiencies: Pytorch, Pycharm or VSCode, Machine Learning experience, Computer Vision experience.

How to Apply:

Interested applicants should email their CV's, transcripts and any supporting material to Prof. Michael Greenspan at michael.greenspan@queensu.ca using the subject line "Software Developer, Machine Learning-Computer Vision - Summer Student 2023". Only candidates selected for an interview will be contacted. Applications will be accepted until the position is filled.