

Job Posting:166185 - Position: S25 Software Developer Intern 166185 E1

Co-op Work Term Posted: 2025 - Summer
App Deadline 02/28/2025 09:00 AM
Application Method: Through Employer Website
Posting Goes Live: 02/07/2025 09:20 AM
Job Posting Status: Expired

ORGANIZATION INFORMATION

Organization Macdon Industries
Country Canada

JOB POSTING INFORMATION

Placement Term 2025 - Summer
** Job Title ** S25 Software Developer Intern 166185 E1
Position Type Co-op Position
Job Location Winnipeg, MB
Country Canada
Duration 4 months
Salary Currency CAD
Salary Salary Not Available, 0 Major List

Job Description

Job Title: Software Developer - Intern, 4-Month Term

Purpose and Scope:

The Student Engineer will need to collaborate with fellow engineers in the office to work on projects as they are needed in the areas of design, documentation, and prototyping. This individual will gain experience working in the Design Office, Testing and in the Prototype Shop. This is a 4-month term position.

- Term start date: May 2025.

Responsibilities:

Participation as a team member in all team project activities as identified, including but not limited to:

- Understand various Agricultural Machine control system theory relating to electrical/mechanical/hydraulic systems.
- App development for Android/iOS devices on Xamarin or Maui frameworks
- Write or modify scripts for processing and analyzing data to be used in machine learning workflows.
- Design support, including travel, for current product production and field issues.
- Provide support for software DVT activities, Prototype build and testing.
- Develop code for communication protocols such as CAN (J1939), ISOBUS, RS232, USB, and Ethernet.
- Develop and implement validation plan (Unit Testing, Hardware/Software in the loop, Integration Testing)
- Collaborate in code development in a Git based repository, creating issues and pull-requests, and following steps to ensure that their code can be merged.
- Other duties as assigned.

Job Requirements

Qualifications:

Education and Experience

- Enrolled in University Engineering or College Engineering Technology program.

Skills and Knowledge

- Excellent communication skills; oral and written.
- Ability to work both in team situations and independently.
- Familiarity with C/C++ and Python.
- Experience working with a Git based version control system
- Good planning and administration abilities
- MS Office products, in particular a good working knowledge of Excel.
- Exposure to automation of equipment, vision/LiDAR/GPU systems would be an asset
- Experience with model-based software design using MATLAB/Simulink tools an asset
- Familiarity with Agricultural machinery and manufacturers.
- Farm background is an asset.

Citizenship Requirement N/A

APPLICATION INFORMATION

Application Procedure Through Employer Website

Cover Letter Required? Yes

Address Cover Letter to Hiring Manager

Special Application Instructions

Application Link:

<https://www.macdon.com/careers/software-developer-intern-4-month-term>

Please click the "I intend to apply to this position" button on SCOPE and also submit your application via the employer's website. Applications are accepted on a rolling basis and the posting may be expired at any time by the employer as submissions are received. Students should submit their applications as soon as they are ready.