ATC SOFTWARE DEVELOPER - INTERN

Location: Montréal, Québec, Canada
Job Status: Full Time – Fixed Term
Date Posted: 01/23/2024

Position Summary:

Under the general direction of the Manager of Engineering, participates in the design, development, and testing of effective new software or enhancements to existing software in support of maintenance and enhancement of the Adacel product lines.

The internship will be focused primarily on the following upgrade and automatic software regression testing activities:

- Operating System upgrade project. Compilation of the legacy C/C++ software currently running on Linux Centos to function on Oracle.

- C++ standard library upgrade project. Compilation of the legacy software to function on C++17 or C++20. Boost calls are to be replaced with the latest standard library calls available in the latest C++ library chosen.

- Auto regression project. Working on the automatic unit test regression suite using google test. Knowledge of C/C++ required and Linux operating system.

Essential Duties and Responsibilities:

- Able to perform software coding, testing, and create relevant documentation with directed supervision and review.
- Able to learn and adapt to company quality processes and standards.
- Able to work within a team environment and contribute from his/her knowledge level.

Supervisory Responsibilities:

- None

Competencies:

- **Alertness:** Learns quickly; is comfortable when having to incorporate new information; is quick-witted; demonstrates intellectual abilities.
- **Perseverance:** Does not give up easily when problems arise; perseveres in dealing with difficulties; stays focused on long-term objectives despite setbacks.

- **Tact:** Changes his behavior to adhere to social rules; adapts to the norms for a new group; is careful and astute in adeptly presenting his points of view.
- **Team consultation:** Accepts having his opinions questioned; consults with team members when making decisions that affect them; realizes that team members have valuable opinions that should be sought.

Qualifications:

Required

- Final year of bachelor's degree or masters in software engineering or computer science.
- Able to work within a LINUX (CentOS & Oracle) environment.
- Knowledge of C/C++/QT programming languages, libraries, RPMs and Makefiles.
- Familiar with of procedural and object-oriented coding methodologies.
- Knowledge of google test suite.
- Familiar with software architectures and design methodologies.
- Knowledge of the AGILE/SCRUM methodology.

Physical Requirements:

- Occasional lifting – up to 25 pounds.
- Repetitive wrist, hand, and finger movement.

Work Environment:

- 9/80 work schedule.
- Normal office environment.
- Typically sitting at a desk.
- Repetitive wrist, hand, and finger movement.

How to Apply:

- You may apply by emailing your resumé to careers@adacel.com
- Include the position title in the subject line of your message.

About Adacel:

Established in 1987, Adacel is a publicly traded company listed on the ASX. The company plays a significant role in global air space safety. A world-leader in its industry, Adacel applies cutting-edge technologies to develop advanced air traffic control simulation and training systems and state-of-the art air traffic management solutions. Adacel's customers include international air navigation service providers (ANSPs), military, defense & security organizations, universities, and airport authorities. More than 21% of the world's airspace is managed with Adacel's Aurora ATM software. MaxSim Tower Simulator and Training systems lead the industry with the highest number of installations worldwide. MaxSim is also the first ATC simulation system in

the world to deliver Virtual and Mixed Reality training capabilities into the classroom. Adacel's latest flagship system, REVAL, a digital Air Traffic Control (ATC) tower system delivers a wide spectrum of digital tower operational solutions, from consulting services to system design, development, deployment, and support. For more information, please visit adacel.com.

Adacel is an Equal Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, and protected veteran status. color, religion, sex, sexual orientation, gender identity, national origin, disability, and protected veteran status.

Disclaimer:

This job description reflects management's assignment of essential duties and responsibilities. It does not restrict the duties and responsibilities that may be assigned. Reasonable accommodations may be made to enable individuals with disabilities to perform essential duties and responsibilities. If this job has a travel requirement, note that the frequency of travel may increase at any time due to adjustments in Adacel's business needs.