

SYSTEMS INTEGRATION ENGINEER

Location: Montreal, Quebec, Canada

Job Status: Full Time

Date Posted: 11/20/2023

Position Summary:

Adacel is looking for a highly qualified Systems Integration Engineer to integrate our hardware infrastructure with 3rd party external data information systems and our software products. As a systems integration engineer, you will be planning, producing, testing, and deploying complex air traffic control systems. Reporting to the manager of systems engineering, your role will involve working with, clients, solutions architects, system engineers and software developers to ensure that our integrated overall system solutions satisfy client requirements and integrate seamlessly with their existing systems. Systems Integration Engineer are part of a larger System Engineering team whose responsibility is to ensure Adacel's product solutions can be installed and deployed in a repeatable, effective, easy to maintain manner.

Essential Duties and Responsibilities:

- Ensure that integration of Adacel products within clients' current infrastructure and with customer provided systems is seamless.
- Collaborate with clients, solutions architects, system engineers, software developers', and other stakeholders to identify system requirements and ensure that our integrated products meet those requirements.
- Design, develop, test, and implement complex system integration solutions for Adacel's Air Traffic Management operational products.
- Support the development of installation and configuration strategies, methods, processes, scripts, and tools that ensure the efficient deployment and integration of hardware system solutions.
- Develop and maintain technical documentation related to system integration and administration.
- Provide technical guidance and support to developers and other team members in relation to system integration.
- Provide technical training in factory and/or at customer site for system integration, administration, and maintenance.
- Use sound configuration management methods to ensure developed integration solutions are repeatable, effective, and easy to maintain.
- Investigate and fix technical problems with system integration.

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- Keep up to date with emerging technology and market developments connected to system integration.
- Take part in quality control tasks (ISO 9001, CMMI) and security risk assessments.
- Identify opportunities for process improvement and implement those improvements.
- Communicate effectively with team members, clients, and other stakeholders.

Supervisory Responsibilities:

- None

Qualifications:

Required

- Bachelor's degree in computer science, Software Engineering, or related field
- 5+ years of integration and administration in a LINUX environment
- Advanced knowledge of x86 virtualization solutions like VMware, KVM, oVirt. Installation, administration, repair.
- Advanced knowledge of hardware and software system integration methodologies and industry standards
- Strong networking experience
- Knowledge of relational databases like PostgreSQL.
- Advanced knowledge of computer hardware repair, troubleshooting, and configuration.
- Strong programming skills scripting languages such as Bash, Batch, Python, Perl etc.
- Strong problem solving and critical thinking skills.
- Excellent written and verbal communication skills in English and French.

Desired

- Experience in security systems, including firewalls, intrusion detection systems, anti-virus software, authentication systems, log management, content filtering.
- Integration/administration experience in a WINDOWS environment.
- Previous experience working with Agile/Lean development methodologies, particularly Scrum, and Kanban
- Previous experience working with Configuration Management tools.
- Working knowledge of AutoCad, SketchUp, and/or Visio software.
- Knowledge of domain-specific topics (ATM, ATC Simulation, speech recognition, etc.).
- Experience with sourcing components and communicating with suppliers.

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Other Qualifications:

- Ability to adhere to Adacel's Drug Free Workplace Policy.
- Ability to pass an Adacel background check while employed.
- Ability to travel up to 25% annually.
- Must currently have or can obtain a U.S./Canadian passport.
- Must be able to pass a security background check (if requested).

Physical Requirements:

- Minimal physical effort (e.g. lifting, pushing and moving heavy objects).
- Occasional lifting – less than 25 lbs.
- Repetitive wrist, hand, and finger movement.

Work Environment:

- Alternative work schedules (9/80 or 4/10).
- Normal office environment.
- Occasional airline and car travel.
- Typically sitting at a desk.

Benefits:

- Hybrid teleworking environment.
- Alternative work schedules (9/80 or 4/10).
- 4 weeks' vacation.
- Retirement.
- Healthcare.

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

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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 Technical Services, Inc. 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.

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