Solution Architect Solution Architect Solution Architect - Centum Adetel US Work Experience

Solution Architect Centum Adetel - Montr al, QC June 2018 to Present Tasks: - Lead a team of developers - Manage sprint/releases/Jira board - Estimate functionalities - Modules integration - Solution configuration - Develop specific modules for projects   Achievements: - Managing the TCMS interface (developing and configuring modules to connect and interface with the client TCMS). - Integration and configuration of a virtual machine running in a linux controller using qemu. Managing the linux controller's image using buildroot (integrated packages, deamon configuration, startup scripts)   Technical Environment: Linux, Buildroot, C++, Python, Git, JIRA. Software Developer Centum Adetel - Montr al, QC October 2017 to May 2018 Tasks: Support for PIS (Passenger Information System) for ALSTOM.   Achievements: - Enhancements for existing PIS system. - Creating Windows embedded bootloader for controllers.   Technical Environment: Systems and software analyst at Mannarino Systems and Software Inc. System and Software Analyst Mananrino Systems and Software - Montr al, QC July 2016 to September 2017 Tasks: Develop simulation modules and all the tools facilitating the integration.   Achievements: - Develop and test (unit test and ATM) aircraft simulation modules for the Air Data and Attitude and heading reference systems - Design and develop a debug tool for the communication buses(ARINC429, CAN bus..) where buses data (messages and parameters) and their values can be visualized, plotted and exported in csv files. - Develop tools to generate C++ code from aircraft input (excel file describing communications bus and variables, xml data, dlls)   Technical Environment: Windows platforms running visual studio, C, C++, c#, Python, Git, SVN. Software Engineer Nuum Solution - Montr al, QC December 2014 to July 2016 Tasks: Helping the client, GSI Electronics, developing and designing their new agriculture controller.   Achievements: - Develop the product configuration wizard. - Develop the RS-485 communication protocol management working closely with the firmware team: all the module's discovery, addressing and firmware updating process.   Technical Environment: C++ code developed in Eclipse on an Ubuntu machine and stored in SVN repositories. Qt and Boost used. Software Team lead SONATEST - Quebec City, QC July 2013 to December 2014 Tasks: Design and develop a new version of the company old flaw detector.

Achievements: - Supervise a software team of 3, dispatching tasks, setting priorities and managing the software releases. - Developing signal analysis and processing features for the product Software developer SONATEST - Quebec City, QC April 2012 to July 2013 Tasks: Help developing and releasing a new flaw detector. Achievements: - Developing ultrasonic features (signal processing, filter..) - Developing a hardware test tool to automate the production line: automatically test all the product hardware (keypad, scrolling wheel, Bluetooth, usb connectors) Software developer Blueberi Gaming technologies - Drummondville, QC March 2011 to April 2012 Drummondville, Qu bec, Canada 03/2011 - 04/2012 Software developer Tasks: Adapt existing casino videogames to client. Achievements: - Modify, configure, build and test each casino videogame to specific client based on their requests: graphic, animations, behaviour, calculation engine. Technical Environment: Visual studio, C, SVN, proprietary graphic and mathematic engine. Software engineer Sagem Communication - Gateways and Energy Efficiency - Tunis, TN November 2008 to July 2009 Tasks: Design and develop higher layers of a PLC modem for EDF to transmit consumption data via the power line. Achievements: - Develop and test IPv6 communication module: packing/unpacking and processing the data. - Develop and test routing protocol. - Test and evaluate the modem performance using a python script. Technical Environment: Visual Studio, C/C++, Python, RTOS. Engineer Internship Ericson R&D and LARIM Polytechnique - Montr al, QC February 2008 to September 2008 Tasks: Study the mobility management in next generation networks based on the HMIPv6 protocol Achievements: - Implementation of the some features of the protocol and assess its performance. Technical Environment: Openet Modeler, C++, C. Education Champlain College Longueil - Quebec City, QC 2015 Skills C++ (7 years), Subversion (5 years), SVN (5 years), Git (3 years), PYTHON (3 years) Additional Information LANGUAGES SKILLS Arabic: Mother Tongue French: Fluent English: Fluent TECHNICAL SKILLS ? Operating Systems: Windows, UNIX, Linux, RTOS ? Configuration Management: GIT, SVN, IBM Rational ClearCase ? Languages: C/C++, Qt, WPF, Python, UML, XML, HTML/PHP, Shell ? Network/Internet: ARINC429, RS-485, SNMP, DHCP, DNS, NTP, Ethernet ? Development Tools: IAR Embedded Workbench, Qt, Visual C++, Eclipse, Netbeans,

Notepad++ ? Processes, Procedures, Methodologies and Standards: OOP, Agile

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