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St.John's, NL, A1E0C8

Jordan P. Smith

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Education

M.Eng in Computer Engineering* — Memorial University of Newfoundland — Spring 2017
B.Eng in Computer Engineering — Memorial University of Newfoundland — Spring 2013

** thesis: Predicting patient intravascular volume status from ultrasound videos*

Work Experience

Graduate Teaching Assistance

- ENGI7930 - Instrumentation and Experimental Design (May - Aug 2016)
- ENGI5952 - Mechatronics I (Jan - April 2016)
- ENGI1020 - Introduction To Programming (Jan - April 2016)
- ENGI7930 - Instrumentation and Experimental Design (May - Aug 2015)

Research Assistant - Biomedical *Memorial University, NL* *June 2013 - Sept 2016*

- Produced software, hardware and analysis related to patient monitoring, machine learning, point of care ultrasound, medical simulation, medical devices and telemedicine
- Tools used include scikit, Flask, OpenCV, Swing, Hadoop, Weka, R, QT, SVN, Redmine and Doxygen

Research Assistant - Robotics *Memorial University, NL* *May 2013 - June 2013*

- Development of hardware and software for swarm robotics using ROS, Solidworks and Eagle

Design Engineering - FPGAs *Altera NTC, NL* *Sept - Jan 2012*

- Verilog and C# development for optical transport network (OTN) intellectual property solutions
- Development of test scripts for a Verification and Validation plan
- Automation of several project management tasks and scripted maintenance of a large JIRA installation

Software Developer - Simulation *Memorial University, NL* *Jan - April 2013*

- Developed graphical effects in C++ as part of MUN partnership with Virtual Marine Technology
- Products included procedural mesh and texture generation in OGRE, a particle system framework and integration of content with the existing simulation engine.

Programmer Analyst - Web *ACOA Head Office, NB* *May - Aug 2011*

- Migrated MS SharePoint content and applied accessibility guidelines (WCAG 2.0) to all of ACOA's web content
- Produced shell scripts, tests, documentation and guidelines using Microsoft technologies (.Net, C#,PowerShell)

Junior Software Developer *NRC Inst. for Ocean Technology, NL* *Aug - Dec 2010, Jan - Apr 2010*

- Parsed and transfered data from deprecated DEC DATATRIEVE system to MS SQL Server system
- Developed reporting module which genereated PDF diagrams for Ice Tank testing
- Created wxPython GUI for accessing text data and analysis tools for ice tank measurements

Top Languages

Python
Java
C++
Javascript

Projects

MUN Sailbot
Brewing automation
ESDNL robotics course
Swarm robotics

Memberships

IEEE
ACM
FLLNL committee