Miguel de Arcos

Mechatronics Engineering BASc

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WORK EXPERIENCE

Software Engineer — *Sandvine Inc.*, Waterloo, ON
MAY 2016 – OCTOBER 2017
- Designed and implemented sensor caching infrastructure to replace old non-thread safe predecessor
- Developed driver for new PMBus compliant voltage regulators
- Implemented a hardware switch driver

Hardware Engineer — *Evertz Microsystems*, Burlington, ON
MAY 2015 – AUGUST 2015
- Created schematics for a high-performance transfer board
- Executed design changes and part substitutions in schematics

Software Team Lead — *Hansa Language Centre*, Toronto, ON
SEPTEMBER 2014 – DECEMBER 2014
- Supervised and led development team in designing internal Django web-app
- Discussed requirements with stakeholders and kept them apprised of progress
- Developed action plans for the team and individuals in order to accomplish long-term and short-term goals

Software Developer — *EVault*, Oakville, ON
JANUARY 2014 – APRIL 2014
- Worked with minimal supervision from supervisor
- Updated vSphere SDK within the Virtual Recovery Agent, modified several code generating scripts in the process, and added SATA drive recovery
- Used the vSphere environment daily, creating and managing various VMs

R&D Team — *Protecode*, Ottawa, ON
JANUARY 2013 – AUGUST 2013
- Redesigned the report generation infrastructure
- Brainstormed ideas to increase QA automation

Student Engineer — *MCW Maricor*, Moncton, NB
JANUARY 2011 – APRIL 2011, SEPTEMBER 2011 – DECEMBER 2011
- Worked extensively on autoCAD, creating mechanical drawings for construction projects
- Designed HVAC and plumbing layouts

EDUCATION

University of Waterloo, Waterloo, ON — *Mechatronics Engineering, Honours, Co-operative Program*
SEPTEMBER 2010 – MAY 2016

COMPUTER SKILLS

Programming: C/C++, Python, Bash, Java, SQL, PostgreSQL, Matlab
Revision Control: SVN, Git, Perforce
Issue Tracking: Jira

LEADERSHIP

Led the software team at Hansa to modernize the company website
SEPTEMBER 2014 – DECEMBER 2014

Organized hockey practices and advised the team during games as an assistant coach at Midget AA level
SEPTEMBER 2011 – JANUARY 2012

SCHOLARSHIP

President's Scholarship — *University of Waterloo*, Waterloo, ON
SEPTEMBER 2010

LANGUAGES

English, French, Spanish