Miguel de Arcos

Mechatronics Engineering BASc







WORK EXPERIENCE

Software Engineer — *Sandvine Inc.*, Waterloo, ON

MAY 2016 - OCTOBER 2017

- Designed and implemented sensor caching infrastructure to replace old nonthread 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

- Designed 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 - SEPTEMBER 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

 $\begin{tabular}{ll} \textbf{University of Waterloo}, \textbf{Waterloo}, \textbf{ON} - \textit{Mechatronics Engineering, Honours,} \\ \textit{Co-operative Program} \end{tabular}$

SEPTEMBER 2010 - MAY 2016

COMPUTER SKILLS

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

Issue Tracking: Jira

PROJECTS

- Self-Balancing Autonomous Robot
- Six Degrees of Freedom Controller
- Lego Man Retrieval Robot For a detailed description of all my projects, visit my website migdea11.github.io

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 – DECEMBER 2011

SCHOLARSHIP

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

LANGUAGES

English, French, Spanish