

Miguel de Arcos

Software Engineer



[migdea11.github.io](https://github.com/migdea11)



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(519) 502-1887

WORK EXPERIENCE

Software Engineer — *Vital Images Inc.*, Waterloo, ON

MARCH 2018 – PRESENT

- Demonstrated leadership as a mentor and system architect, and coordinated development of my designs
- Relied upon as subject matter expert for various parts of the product
- Designed and implemented FHIR based data model and HL7 ingestion for healthcare informatics system utilizing Apache NiFi

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

- 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

R&D Developer — *Protecode*, Ottawa, ON

JANUARY 2013 – SEPTEMBER 2013

- Redesigned the report generation infrastructure

EDUCATION

• **University of Waterloo**, Waterloo, ON — *Mechatronics Engineering, Honours, Co-operative Program*

SEPTEMBER 2010 – MAY 2016

SOFTWARE SKILLS

Programming: C/C++, Java, Python, Bash, Matlab, SQL, PostgreSQL

Revision Control: Git, SVN, 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](https://github.com/migdea11)

LEADERSHIP

Developed large portion of core feature, resulting in taking an active role in guiding team development

MARCH 2018 – PRESENT

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

LANGUAGES

English, French, Spanish