

# Miguel de Arcos

Software Engineer



[migdea11.github.io](https://github.com/migde11)



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## 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
- Counted upon as subject matter expert for various parts of product
- Designed and implemented FHIR based data model, RESTful API, and HL7 ingestion for healthcare informatics system

**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 Team** — *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

## COMPUTER SKILLS

**Programming:** Java, C/C++, Python, Groovy, Bash, PostgreSQL

**Frameworks/Technologies:** NiFi, Docker, Git, RESTful APIs

## 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/migde11)

## 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