Jana Pavlasek

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CONTACT

- janapavlasek.com
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EDUCATION

MCGILL UNIVERSITY

Bachelor of Electrical Engineering (Honours)
Expected May 2018 | Montreal, QC
Cum. GPA: 3.64 / 4.0
Minor Software Engineering

DAWSON COLLEGE

DEC, Pure and Applied Science (First Choice)
May 2013 | Montreal, QC
Honours List, all semesters
Graduated with First Class Honours

SKILLS

PROGRAMMING LANGUAGES

Python • Java • C/C++ • HTML/CSS • JavaScript

FRAMEWORKS & LIBRARIES

ROS • Robot Framework • Django • Flask • jQuery

VERSION CONTROL

Git

OPERATING SYSTEMS

Linux • Windows

METHODOLOGIES

Agile Development

ELECTRICAL SKILLS

Diptrace • kiCAD • SPICE • Surface mount soldering • Through-hole soldering

LANGUAGES

English

Spoken • Written

French

Spoken • Written

EXPERIENCE

GE LIGHTING | Software Intern

May 2015 – December 2015 | Lachine, QC

- Designed Python tools for interfacing with embedded systems to validate functionality.
- Developed scripts for an automated testing suite using Python and the Robot Framework.
- Developed a web application using Django, Python, HTML, CSS, and JavaScript to autonomously configure custom hardware after manufacturing.

MCGILL UNIVERSITY | Teaching Assistant

Design Principles & Methods
January 2016 – Present | Montreal, QC

- Assisted students with group robotics projects developed in Java, based on the Lego Mindstorms LeJOS API.
- Graded weekly lab reports.

MCGILL ROBOTICS

State Estimation Software Developer
September 2015 – Present | Montreal, QC

- Developed custom software for localization of an Autonomous Underwater Vehicle using ROS and Python.
- Processed sonar data and integrated sensor data into a Kalman filter.
- Conducted bi-weekly full system testing.

RoboHacks Director of Technology
January 2016 – Present | Montreal, QC

- Organized hardware and robotics platforms to be made available to robotics hackathon participants for a one-day hackathon event.
- Designed tutorials for hackathon participants of various experience levels.

Acoustics Section Leader
September 2014 – August 2015 | Montreal, QC

- Organized weekly meetings, distributed tasks and monitored progress for a team of 8 engineering students.
- Led design, implementation and testing of a PCB in DipTrace to process four audio signals using a microcontroller programmed in C.

Power System Designer
September 2013 – August 2014 | Montreal, QC

- Designed and tested a power distribution PCB created in kiCAD for an autonomous underwater vehicle.
- Participated in systems integration of mechanical, electrical and software systems and organized large scale, submerged testing.

SHARED REALITY LABORATORY | Undergraduate Researcher

May 2014 – September 2014 | McGill University, Montreal, QC

- NSERC Undergraduate Student Research Award recipient.
- Developed controls for a variable friction system using Arduino and various transducers.
- Performed experiments to characterize system friction coefficient.