

# Julian Pettit

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## EDUCATION

### UNIVERSITY OF WATERLOO

BASC IN MECHATRONICS

ENGINEERING

Expected April 2020 | Waterloo, ON

### PORT PERRY HIGH SCHOOL

OSSD

Grad. June 2015 | Port Perry, ON

## COURSEWORK

### UNDERGRADUATE

Data Structures and Algorithms

Digital Logic and Circuits

Microprocessor Interfacing

Real-time Systems

Numerical Methods

Statistical Analysis

## SKILLS

### PROGRAMMING

Proficiency:

C++ • C# • SQL • Java • Ruby

JavaScript • Python • Bash

Working Knowledge:

Rails • Android • PHP • .NET

Version Control

Git • SVN

### LANGUAGES

English • French • German

## VOLUNTEERING

### MATH AND FRENCH TUTOR

- Provided learning assistance to elementary students from the community library
- Raised individual course grades by an average of 10% per student

### MÉTIS AMBASSADOR

- Represented the Durham Métis community at the DDSB Louis Riel Day ceremony

### ROTARY INTERNATIONAL

- Set up and prepared venues for the local Rotary Club
- Managed inventory, oversaw guest lists, parking, and seating

## VOCATIONAL EXPERIENCE

### VIRTEK VISION INTERNATIONAL | SOFTWARE ENGINEERING INTERN

December 2016 – April 2017 | Waterloo, ON

- Built and released laser projection software for high profile clients including over 100 fortune 500 companies
- Wrote integration program to allow 6 language packs to be interpreted and displayed by the laser projection software
- Tested aerospace manufacturing processes for quality and defects, working directly with customers to resolve issues
- Increased test suite coverage by 50% on specific product features to accelerate QA acceptance process
- Demonstrated the projection system progress to the CEO of Virtek's parent company

### INNOVASIUM DIGITAL | WEB APPLICATION DEVELOPER

April 2016 – Aug 2016 | Markham, ON

- Created large sections of custom work flow web applications to help large corporations meet productivity goals
- Improved legacy code on a company product used by multi-million dollar companies through converting to a React framework
- Built and linked personalized invoicing forms to customer databases using SQL and Ruby on Rails
- Researched and implemented solutions to specific customer requests, coordinating results with the senior developers

## LEADERSHIP EXPERIENCE

2017 - Present	Orientation Leader	Waterloo Engineering Society
2016 - Present	Financial Executive	UW Kendo Club
2015 - 2016	Class Representative	Waterloo Engineering Society
2012 - 2015	Leadership Head	PPHS Student Council

## PROJECTS

### JIRA HISTORICAL ANALYTICS PROGRAM

- Used a REST API to scrape and store time estimation data from the Jira project management software
- Wrote C#/C++ program to deserialize, sort, and output data to a spreadsheet
- Generated analytics for estimated/actual time spent on issues, highlighted largest discrepancies and automated plotting of data

### RASPBERRY PI RADIO BROADCASTER

- Constructed a short range FM radio for broadcasting music
- Upgraded antenna to allow for a 75 meter range
- 3D printed a custom case to increase aesthetics and durability

## INTERESTS

- Homemade electronics using micro computers and radio-controlled systems
- Physical activities including bicycling, hiking, camping, and martial arts
- Literature, book restoration, and language study