

# MICHAEL PEET

1A Mechatronics Engineering | University of Waterloo

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## SUMMARY OF QUALIFICATIONS

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### Software Development

- Proficient in Java, C, C++, HTML/CSS, Python, Working knowledge of JavaScript/JQuery, Git

### Development Environments

- PyScripter/IDLE, Netbeans, Dev-C++, MPLAB 8/X, Sublime Text Editor, GitHub Command Line, Fritzing

### Applications

- AutoDesk Inventor, Siemens Solid Edge, Microsoft Office, Adobe Premiere Elements

### Soft Skills

- Teamwork, leadership skills, and flexibility developed through jobs as a camp leader and a math tutor

## EXPERIENCE

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### Hardware Assembly/Web Developer, Palette, Kitchener, ON (June - July, 2015)

- Created new template for Palette website using existing web templates (not yet deployed)
- Participated in team development and fabrication of premium product line
- Responsible for quality assurance and repair of some broken units

### Web Developer, Dashtask, Kitchener, ON (June - August, 2015)

- Made templates for web pages using GIMP or Powerpoint
- Transformed templates into functioning webpages using HTML/CSS/Javascript

### Senior Leader, Kitchener Summer Playgrounds, Kitchener, Ontario (July 2012 - August 2014)

- Planned, executed, and supervised fun and educational activities with campers while ensuring safety
- Monitored camper behaviour and provided feedback to parents

### Math Tutor, Kitchener, ON (October 2012 - June 2013)

- Planned and taught informal math lessons to a 10 year old boy

### Usher, St. Jacob's Playhouse, St. Jacob's, Ontario (August 2010 - June 2015)

- Assisted patrons, and sold draw tickets and food at intermission

## PROJECTS

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### Computer Science Contest Algorithms, Class Project, Kitchener, ON

- Algorithms include Breadth-First-Search, Recursion, 0/1 Knapsack Programming
- Code hosted on Github

### Personal Website, Personal Project, Kitchener, ON

- Developed a personal website using HTML/CSS/Javascript with Bootstrap framework and jQuery Plugin

### Music Light Board (In Progress), Personal Project, Kitchener, ON

- Microphone and active filter circuits make RGB LEDs on board flash based on musical frequencies
- Circuit and board designed in Fritzing, PIC16F676 chip programmed in C

### Analogue Test/Programming Board, Personal Project, Kitchener, ON

- Individual colour brightness on RGB LED are controlled with potentiometers on board
- Circuit and board designed in Fritzing, PIC16F676 chip programmed in C

### Television Remote, Personal Project, Kitchener, ON

- IR LED and switches on board transmit IR TV protocols, including SIRC, RC5, and some NEC codes.
- Circuit and board designed in Fritzing, PIC12F683 chip programmed in C

## Autonomous Sumo Robot, Sumo Robot Competition, Waterloo, ON

- Used shiny metal ramps to trigger opposing robot's floor sensors and back them out of the ring
- Constructed 2 IR sensors to find and attack position of opposing robot
- Worked with a partner to design and program circuit board at same time to increase efficiency
- Programmed in C

## EDUCATION

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### Candidate for Bachelor of Applied Science, Mechatronics Engineering (2015-Present)

- University of Waterloo, Waterloo, ON

### Ontario Secondary School Diploma, Honours (2011-2015)

- Forest Heights Collegiate Institute, Kitchener, ON

## ACHIEVEMENTS

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- UW Canadian Computing Competition: FHCI Top Score, Top 25% (2015)
- Swimming - Competed at CWOSSAA (2015)
- Karate: Achieved 1st Degree Black Belt (2014)
- UW Fermat Math Contest: FHCI Top Score (2014)
- UW Hypatia Math Contest: Top 25% (2014)
- UW Avagadro Chemistry Contest: FHCI Top Score (2014)
- Swimming – Competed at WCSSAA, 100m Back Stroke: placed 3<sup>rd</sup> (2014)
- UW Canadian Intermediate Math Contest: Top 25% (2012)

## ACTIVITIES

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- Tsuruoka Karate, Black Belt (2002-Present)
- FHCI Swim Team (2010-2015)
- FHCI Cross Country Team (2011-2015)
- University of Waterloo Math Contests (2010-2015)
- University of Waterloo Computing Contests (2012-2015)
- Robotics Club (2012-2015)
- Senior Concert Band (2010-2014)

## INTERESTS

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Programming, swimming, playing guitar, playing computer games, spending time with friends and family, travelling