**MICHAEL** **PEET**

1A Mechatronics Engineering | University of Waterloo

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SUMMARY OF QUALIFICATIONS

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

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

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

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

* 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 3rd (2014)
* UW Canadian Intermediate Math Contest: Top 25% (2012)

ACTIVITIES

* 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

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