

Damon Chau

(416) 569 – 8000
damon.hmchau@gmail.com
<https://github.com/Damon-Chau>
<ca.linkedin.com/in/damonhmchau>

Summary of Qualifications

Languages: Python, C++, Java, LabVIEW, Visual Basic

API: PRAW, PyGames, Echo-nest

Web: HTML5, CSS3, JavaScript, Agile

CAD: SolidWorks

Excellent team work skills gained through communication with team members in FIRST Robotics

Strong problem solving ability gained through challenging projects and experience

Experience

Automation Developer – Team 4001, RetroRams, FIRST Robotics Competition, 2015

- Designed **state machines** in LabVIEW for autonomous robot movement
- Contributed to the design and build of a 120 lb robot made in 6.5 weeks

IT Support – Carefirst Seniors & Community Services Association, 2011 - 2015

- Performed maintenance and optimization on aging PC's
- Troubleshoot printer networking errors

Projects

SuggestaLaptop Subreddit Scraper

- Used **Python** and **PRAW API** to scrap data from online blogs
- Extracted data from the SuggestaLaptop subreddit based on various keywords
- Implemented a scatter-plot to display most popular specifications for laptops

Quiz-o-matic

- Implemented **Python** and **PyGames** module to design testing software for classrooms
- Integrated Agile methodology in development to adhere to constraints of school curriculum

Music by Mood

- Used **Python** and **Echo-nest API** at **Waterloo's Tech Retreat Hackathon**
- Analyzed trends in tempo and intensity in popular music using Echo-nest servers
- Created numerical model to categorize music based on trends

PI Estimation

- Used **C++** to estimate the numbers of PI
- Integrated user-specified error margins up to 6 decimal places

Education

University of Waterloo

2015-2020

Candidate for Bachelor of Applied Science in Systems Design Engineering

Waterloo, Ontario

- Courses: Digital Computation (C++, pair programming), Graphics (SolidWorks), Design (Iterative Process)

St Robert Catholic High School

2011 – 2015

Thornhill, Ontario

Awards

- Two time 2015 FIRST Robotics Regional Finalist
- 2015 FIRST Robotics Industrial Design Award
- 2015 Waterloo President's Scholarship Award for above 90% average
- 2014 the Ontario Volunteer Service Award