

# DAVID CHAU

## 2A MECHATRONICS ENGINEER

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### WORK EXPERIENCE

#### SOFTWARE QA ANALYST

(Jan '17 - Present)

##### Unitron Hearing Ltd - KITCHENER

- Performed manual black box testing on proprietary software applications used to program hearing aid products
- Design, developed, and maintained detailed test scripts through Extensive Testing, an open-source test automation framework
- Identified software defects and submitted problem reports via Polarion bug-tracking system

#### INFORMATION TECHNOLOGY INTERN

(May '16 - Aug '16)

##### Purolator Inc - MISSISSAUGA

- Designed and developed an internal reporting framework through Excel VBA, enabling the automation and translation of SAP BW queries into a suite of customer facing reports
- Supported implementation of a SMB Retention & Acquisition Dashboard providing a robust method for data visualization and automation of marketing reports using Qlikview
- Reported high level metrics to upper management for daily assessment of business health

### PROJECTS

#### IN PROGRESS

(Mar '17 - Present)

##### Custom Ergonomic Mechanical Keyboard

An ergonomically angled keyboard with a custom key layout. To be built using acrylic sheets, Cherry MX Brown key switches, and powered by an Arduino Pro Micro.

#### COMPLETE

(Nov '15 - Dec '15)

##### Gumballin'

A Lego-NXT based autonomous system that receives, categorizes, and dispenses coloured gumballs based on user input. Autonomy obtained through sensor feedback, servo motor control, custom 3D printed parts, and algorithms developed in Robot C.

#### COMPLETE

(Oct '14 - Jan '15)

##### Cygnus Strike

A retro space shooter mobile game developed in Android Studio using the LibGDX framework.

### TECHNICAL SKILLS

#### LANGUAGES

C++  
CSS  
HTML  
Java

#### DESIGN

Adobe Illustrator  
Adobe Photoshop  
AutoCAD  
SolidWorks (CSWA)

#### MISC. SOFTWARE

Extensive Testing Client  
Microsoft Excel  
Microsoft Outlook  
Microsoft Word  
Qlikview

### EDUCATION

#### UNIVERSITY OF WATERLOO

Candidate for BAsC in  
Mechatronics Engineering '20

#### AWARDS

2015 Recipient of President's  
Scholarship

#### RELEVANT COURSES

Digital Computation  
Algorithms & Data Structures  
Microprocessors & Digital Logic  
(Transcript available upon request)