


# ETHAN Y CHUNG

UNIVERSITY OF WATERLOO 2A BIOMEDICAL ENGINEERING

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## EDUCATION

Candidate for Bachelor of Applied  
Science in Biomedical Engineering  
University of Waterloo  
2017-2022

## VOLUNTEER WORK

Red Cross Mobile Food Bank  
Volunteer Manager  
Toronto, ON  
2015

Prostate Cancer Canada  
Sales Representative / Race Marshall  
Toronto, ON  
2015-2016

Ontario Lung Association  
Volunteer Race Marshall  
Toronto, ON  
2015

## INTERESTS / HOBBIES

Legal Analytics - IP/Patent Law

Photography & Graphic Design

HOSA Competition 2017  
International Qualifier

Varsity Curling  
Regional Finalist

Varsity Badminton  
Regional Qualifier

Guitar and Piano

## SUMMARY OF QUALIFICATIONS

- Proficient in SolidWorks, AutoCAD and Fusion360
- Experienced with C#, C++; familiar with Arduino, MatLab and Python
- Working Knowledge of HTML5, CSS, Adobe XD; familiar with XML and JavaScript
- Proficient in Adobe Illustrator and Photoshop

## PROJECTS

### AUTOMATED SYRINGE LOADER

Personal Project / Toronto, ON

- Designing and 3D printing the turntable and mixing station for vials
- Medical Device to fully automate the process of preparing chemotherapy medication using an Arduino Mega Micro-controller
- Utilises pistons to guide the syringe into the vial and stepper motors to assist with mixing and rotating vial positions

### PERSONAL WEBSITE

Personal Project / Toronto, ON

- Created personal website using HTML5, CSS, Bootstrap and Javascript
- Current PHP contact form not supported by github host
- Portfolio section to be added when more diverse projects are completed

### ENABLE TEAM

Student Design Team Member / Waterloo, ON

- 3D printed moulds and manufactured parts for E-nable prosthetic arms
- SolidWorks and Fusion360 used to customize hand for donor
- Assembled the fingers and main attachment point of the prosthetic hand

### WANDER APP

StarterHacks / Waterloo, ON

- Using XML and Illustrator, co-coded UX/UI design for wishlist app
- Adopted Google APIs and Firebase to access location services and Node.js web application running on Amazon Web Service to support query functions

### PERMAFIST

Design Project / Waterloo, ON

- Modeled, Designed and 3D printed device in SolidWorks to reduce the chance of sustaining a wrist fracture when falling
- Test Design, Human Factors and Accident Analysis carried out carried on final design

## EXPERIENCE

### SCARBOROUGH MEDICAL CENTRE

Administrative Assistant / Scarborough, ON

- Co-ordinated patient schedules and maintained open line of communication between patients and physicians
- Processed incoming faxes, OHIP billing, legal invoices, record transfers and resolved patient and lab related issues

### DES VOEUX CHAMBERS

Barrister Intern / Hong Kong SAR

- Analyzed financial case files to establish a chronology of events
- Deliberated defenses for the case and met with the clients to further discuss legal action

### ANNIE HO AND PARTNERS

Solicitor Intern / Hong Kong SAR

- Drafted e-mails on behalf of clients to address their legal situations
- Analyzed legal documents; mortgage papers, debt collection, and provided legal advice over the phone