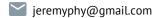
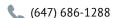
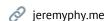
# JEREMY PHY

# **Mechatronics Student at University of Waterloo**







in linkedin.com/in/jeremyphy

qithub.com/jeremyphy

## **SKILLS**

C++ Jav











**Electronics Design** 

Soldering

Arduino

Fritzing

Power Tools



Solidworks

## **INTERESTS**

Skate / Longboarding

Basketball

Cinematography

#### **EXPERIENCE**

## **Electrical Engineering Intern**

Summer 2018

Focused Ultrasound Lab at Sunnybrook Research Institute

- Implement **control system** with **Bash** scripts and **Linux**-based microcontroller, capable of applying a reflow heat profile in under 5 minutes
- Built an automated solder reflow oven from existing chassis, capable of a peak internal temperature of 235°C

**President** 2017–2019

Marc Garneau C.I. Robotics Club

- Prototyped experimental design to **optimize** friction within size constraints
- Managed executive team, finances, and fundraising effectively; resulting in operating budget growth of 162%
- Led club with hands-on approach to **championship-finish** at UOIT Sumobot Competition

### **PROJECTS**

#### Personal Website

Winter 2019

• Configure domain redirection through DNS-webhost pairing to enable HTTPS connection

#### **Robinhood: The Game**

Winter 2018

- Developed game architecture using **Java object oriented programming**; resulting in efficient entity creation and data storage
- Implemented character mapping using **data structures** allowing for flexible entity interaction and movement
- Designed **GUI** using Java Abstract Window Toolkit (AWT) for seamless **UX** and gameplay

## **ACHIEVEMENTS**

#### Merit Award - Merit Bursary Program

2019

- for 'exceptional community contributors'

#### **Young Scholar Award Finalist** – Young Scholar Foundation

2019

- for leadership and community involvement

# Champion, Best Engineering Design and Most Novel Design Award

2018

**UOIT Engineering Sumobot Competition** 

- best result out of 58 teams

# **EDUCATION**

## Candidate for BASc. in Mechatronics Engineering

2019-2024

University of Waterloo

GPA: 84.9%

(expected)

• Relevant courses: Digital Computation, Algorithms and Data Structures

## Talented Offerings for Programs in the Sciences (TOPS)

2015-2019

Marc Garneau C.I.

• Relevant courses: AP Computer Science A