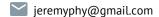
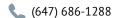
# JEREMY PHY

# **Mechatronics Student at University of Waterloo**







linkedin.com/in/jeremyphy

github.com/jeremyphy

## SKILLS



HTMI











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

- Implemented 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 'crawling' 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 2020

- Designed web page using **HTML** and **CSS** for clean and informative layout
- Configured 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

(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