

Kenny Miu

Profile

kennymiu2@gmail.com
kennymiu.com

Tools

Arduino
Raspberry Pi
SolidWorks

Skills and Labs

Biopolymers Synthesis
Tensile Testing Biopolymers
Electroplating
Soldering

Languages

Python
Swift
JavaScript

Education

University of Waterloo

Candidate for BASc degree in
Nanotechnology Engineering

Sept 2019 - Apr. 2024

Work Experience

FIRST Robotics Mentor

Jan 2018 – Dec 2018

Toronto, ON

Tools: LEGO NXT, EV3, C

- Mentored a small team of 9-11 y/o children that won the competition
- Created a modular design to allow the team to swap parts easily to complete each challenge
- Optimized the route to complete every challenge in the shortest time possible

iOS Developer

Sept 2018 – June 2019

St. Augustine CHS, Markham ON

Tools: Swift, Objective C, XCode, Simulator

- Created and programmed the entire school app
- Entirely self-taught and solved problems individually
- Worked in a team of 4 to design the UI and ensure both Android and iOS designs are in sync. Implemented the UI for iOS individually

Computer Instructor

Sept 2015 – June 2019

Milliken Mills Community Centre, Markham ON

Tools: NXT Robotics, Arduinos, Java, Python

- Taught students ages 6-14 to create and program robots to complete designed challenges
- Educated students varying program concepts from loops to OOP in several languages such as Python
- Worked with and taught different types of software such as Animation studios, Programming IDEs, Video editors

Projects

SolidWorks Design Projects

Tools: SolidWorks

- Worked with a small team to create a fully functioning soapbox car
- Designed a working trampoline targeted for children

Raspberry Pi

Tools: Raspberry Pi 3, Various Extensions

- Created a DNS sinkhole to prevent Internet tracking
- Rerouted all personal devices to the DNS sinkhole for privacy
- Designed a Home Media Centre for entertainment

Personal Website

Tools: React, JavaScript, HTML, CSS, npm

- Uses the SPA architecture
- Showcases recent projects and interests