NAITAO CUI

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SKILLS

LANGUAGES: C++, C, HTML, CSS, Javascript
FRAMEWORKS: jQuery, AngularJS, Ionic
PLATFORMS: Arduino
CAD: AutoDesk Eagle, SolidWorks, AutoCAD, Fusion 360

EMPLOYMENT

Braze Mobility · Product Development Intern
May 2017 to Aug 2017

- Introduced and implemented **C++** based library to reduce noise in rear-end detection system resulting in signicantly less faulty readings
- Re-engineered company code using **C** to incorporate a Data Logging System into Adafruit Feather Boards allowing for a much cleaner integration of mobile apps
- Developed a dynamic Google Sheets extension written in **HTML, CSS and JavaScript** to efficiently mass edit inventory data, reducing the average editing time from several minutes to a few seconds
- Designed a control module using **Fusion360** that was employed in company's beta product and later inspired final design

PROJECTS

Bot or Not

- Developed an online Turing Test game where players are placed in a chat room and must determine which users among them are actually machines
- Architected game's backend flow using **Node.Js** and **Express** to support concurrency
- Designed and developed an interactive user interface using **Jade, CSS and JavaScript**

Autonomous Table Tennis Trainer

- Constructed autonomous robot to fire table tennis balls at custom distances and frequencies
- Developed and embedded **C**-based code to integrate personal ball loading design
- Designed 3-D printed and laser-cut components using **AutoCAD** and **SolidWorks** allowing for easy integration

Weather Advisor

- Employed public APIs using **JavaScript** to suggest appropriate clothing to wear depending on local weather
- Designed Web App using **HTML** and **CSS** to create an intuitive user interface

EDUCATION AND RELEVANT COURSES

University of Waterloo · Candidate for Bachelor of Mechatronics Engineering, expected graduation in 2021

- Data Structures & Algorithms (C++, Abstract Data Types, Algorithm Design and Efficiency)
- Microprocessors and Digital Logic (PLC Programming, Microcomputer Structure and Operation)

AWARDS

Professional Engineers of Ontario Scholarship
Sep 2016

- Awarded to academically distinct students pursuing careers in engineering

President's Scholarship of Distinction
Sep 2016

- Granted to Waterloo applicants with an entrance average exceeding 95%