

BRIAN LIN

Software & Embedded Systems Engineer

EDUCATION

University of Michigan | Ann Arbor, MI

Computer Engineering, Bachelor of Science in Engineering - GPA 3.5

- Focuses: *Embedded Systems, Computer-Based Control Systems*
- Key Coursework: *Advanced Embedded Systems (EECS 473), Data Structures and Algorithms (EECS 281), Full-Stack Web Systems (EECS 485), Control Systems and Analysis (EECS 460), Computer Architecture (EECS 370)*
- University Honors, Dean's List – College of Engineering

Expected Graduation: April 2021

INFO

Contact:

pblin@umich.edu
(408) 921-9880

SKILLS

C++/C
Swift

Objective-C
Agile/Scrum
React Native
iOS/MacOS
Python
JavaScript

Embedded
ARM Assembly

Verilog HDL
FPGA
Controls
Circuits
Logic
MATLAB

PASSIONS

Avocados
Photography
Street Eats
Travel
Cruises
Sushi
Drums
Guitar
Swimming
Hawaii

LINKS

brianpoanlin.com
in/brianpoanlin

LEADERSHIP

Intercollegiate Taiwanese American Student Association | New York, NY

May 2020 - Present

Co-Executive Conference Director, Midwest Conference

Lead a team of 24 conference team directors to strategize finance, networking, marketing, and speaker logistics to ensure a successful conference of 150 attendees from schools all over the nation and Canada

PROJECTS

Smart Shoes – Diabetic Ulceration Detection System | Embedded ARM, iOS

Aug 2020 – Dec 2020

Project Showcase: <https://cse.engin.umich.edu/eeecs-473-advanced-embedded-systems-group-b/>

- Prototyped, designed, assembled, and brought-up a full set of Printed Circuit Boards (PCBs) powered by STM32L4 that sampled force resistive sensors on an insole at 100Hz for diabetic patient ulceration detection and monitoring
- Engineered custom service and characteristic Bluetooth Low Energy (BLE) profiles with a BlueNRG-M2SP chip to send and receive 18-byte data packets at a high frequency between the PCB and iOS
- Utilized FreeRTOS (STM32's CMSIS) to efficiently manage scheduling of communications with the ADC, pressure-time-integral calculations, and SPI communications with the BLE chip