

BRIAN LIN

Software & Embedded Systems Engineer | (408) 921-9880 | pblin@umich.edu | brianpoanlin.com

EDUCATION

[University of Michigan](#) | Ann Arbor, MI

Expected Graduation: April 2021

Computer Engineering, Bachelor of Science in Engineering - GPA 3.5

- Focuses: *Embedded Systems, Computer-Based Control Systems*
- Key Coursework: *Data Structures and Algorithms (EECS 281), Embedded Systems (EECS 373), Computer Organization (EECS 370), Control Systems and Analysis (EECS 460)*

EXPERIENCE

[Apple](#) | Cupertino, CA

June 2020 — Present

Software Engineering Intern, Sensing and Connectivity (CoreMotion - Health)

- Architect, develop, and test clinical proctoring tools that communicate with low level system sensor services to monitor and validate data collection to minimize critical data loss for high profile studies
- Lead scoping conversations with engineering managers and stakeholders to prioritize feature implementation
- Summer 2020 commitment

[Apple](#) | Cupertino, CA

January 2019 – August 2019

Software Engineering Co-Op, Field Diagnostics Tools and Systems Engineering

- Architected, developed, and deployed software that drive iPhone inspection fixtures in factories and repair centers while working closely with hardware vendors to meet the production timeline
- Designed MacOS and iOS software that perform diagnosis of Apple iOS products with Swift and Objective-C
- Prototyped basic circuits to integrate sensors into hardware I/O boards and controllers
- Effectively communicated engineering requirements, documented scope, and demonstrated technical achievements in front of management to ensure successful global deployment

[Weight Watchers \(WW\)](#) | New York, NY

May 2018 – August 2018

iOS Software Engineering Intern, User Authentication and Onboarding

- Built software in Agile development sprints with Swift to maintain the top-ranked WW App by accepting tickets, estimating point values, and preserving code readability with continuous integration tools
- Worked with designers and compliance officers to ensure feature implementations are secure and accessible to all
- Engaged in code reviews with senior engineers, created formal pull requests, and frequently submitted builds for quality assurance testing to deliver successful biweekly updates to the iOS App Store

[Emerging Technologies Group](#) | Ann Arbor, MI

January 2018 – Present

Software Developer, iOS Augmented Reality Development and Research

- Program flexible, scalable augmented reality frameworks for iOS to enable easy scene creation, vivid animations, and accurate asset placements within a simulated space
- Engineer augmented reality and marker solutions inside designated buildings within the College of Engineering to revolutionize the indoor tour experience

[Independent iOS Development and Hackathons](#) | Various Locations

July 2011 - Present

Software Developer, Team Based Short Term Projects

- Engineer innovative solutions and demonstrate effective proof of concept in short periods of time
- Recognized at PennApps XV (Best Education Hack, 1517 Grant, Top 10), PennApps XVII (Top 30), MHacks X (Best Financial Hack), and Hacking Generation Y (Best NoSQL Database)
- Recognized Apple WWDC Scholarship Recipient for creativity and demonstration of knowledge with the iOS SDK

SKILLS

Software C++ | C | Objective-C | Swift | Assembly | Agile & Scrum | MATLAB | React Native | Python | Source Control

Hardware Verilog | FPGA | ARM Based Processors | Quartus | Logical & Electrical Circuits | Control Systems

RECENT PROJECTS

[Smart Garage](#) | Embedded, iOS

May 2020

- Reconfigure an existing Lift Master garage system to enable Wi-Fi control from an iOS device by modifying the control and power circuits
- Utilize an ARM Cortex-M3 chip to perform SPI communication with an ethernet chip to securely send and receive TCP packets with the host iOS app for user interactions

[Bridge](#) | React Native (iOS, Android, Web)

March 2020 - Present

- Redesign student-recruiter interactions using web sockets to establish in person digital card exchanges to foster more organic conversations and allow the students to drive the conversations
- Integrate Zoom video conferencing and custom queue management to create a smooth virtual career fair experience