Henry Cheung

cheunghenry.com | henryc@mit.edu
229 Vassar Street, Cambridge, MA 02139
(516) 455-8659

Education

Massachusetts Institute of Technology **Class of 2019**

- Candidate for Bachelor of Science in Electrical Engineering and Computer Science *Cambridge, MA*
- Relevant Courses: Medical Device Design, Solid-State Circuits, Power Electronics, Microcomputer Project Lab, Intro Analog Electronics Lab, Microelectronic Devices and Circuits, Elements of Software Construction
- Other relevant skills: Rapid prototyping (3D printers, laser cutters, basic CAD), Assembly/Java/Python/Javascript/MATLAB/HTML/CSS, EAGLE EDA

Experience

Pascall Systems **September '18-Feb '19**
Electrical/Embedded Engineer *Cambridge, MA*

- Developed mobile app and device communication protocols for an electroencephalogram (EEG)
- Evaluated electronic boards for prototypes

Biotonomy **July '18-present**
Co-Founder *Cambridge, MA*

- Developing a cell culture monitoring system with seed funding from MIT Sandbox Innovation Fund

Loro **June-August '18**
Electrical/Embedded Engineer *Cambridge, MA*

- Developed an assistive camera device for wheelchairs, enabling paralyzed users to communicate and navigate
- Represented company in judging/pitch rounds at the Microsoft Imagine Cup World Finals in Seattle

Breast Lesion Biopsy Clip Detection **September '17-May '18**
Co-Developer *Cambridge, MA*

- Created a novel detection system based on single-crystal ultrasound technology to localize small clips placed in the breast during biopsy of suspicious lesions
- Collaborating with clinicians at Massachusetts General Hospital

Conformable Decoders (MIT Media Lab) **March-June '18**
Researcher *Cambridge, MA*

- Fabricated piezoelectric sensors, actuators, and transducers for conformal biomedical devices
- Designed and prototyped analog and digital circuitry in order to interface with such devices

Linear Technology Corporation **January-February '17**
Intern *North Chelmsford, MA*

- Created a self-learning algorithm that can predict a battery's state of charge and remaining runtime with charge/discharge cycles utilizing real-time telemetry system data

MIT STEP (Scheller Teacher Education Program) Lab **February '16-January '17**
Research Assistant *Cambridge, MA*

- Developed a Javascript-based text programming language for the Gameblox visual block-based programming language for students to transition to object-orientated programming languages

Activities

MIT MakerLodge **September '16-present**
Electronics Training Chair *Cambridge, MA*

- Developing introductory electronics training curriculums with custom PCB projects for students
- Training and teaching fellow students how to use basic machine shop tools, safety, 3D printers, laser cutters

Class Lab Assistant **September '17-December '18**
Introduction to Embedded System (6.08),Circuits and Electronics (6.002) *Cambridge, MA*