Henry Cheung

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Education

Massachusetts Institute of Technology **Class of 2019**

Bachelor of Science, Major in Electrical Engineering and Computer Science

- Relevant Courses: Medical Device Design, Solid-State Circuits, Power Electronics, Microelectronic Devices and Circuits, Elements of Software Construction, Microcomputer Project Lab, Intro to Analog Electronics Lab

Experience

Advanced Functional Fabrics of America **July '19-Present**

Lead Hardware Engineer (January '21 - present) *Cambridge, MA*

- Leading agile teams tasked with building demonstrator projects at the nexus of hardware and textiles leading to significant follow-on funding from both commercial and DoD customers
- Building out project requirements, timelines, and budgets while interfacing directly with customers
- Performing customer discovery for smart textiles and other technology in a range of markets while designing and testing minimum viable products based on customer feedback

Embedded Systems Engineer (July '19 – Dec '20)

- Designing and executing electrical, software, & hardware systems for a range of austere environments, including extremely high temperature to high pressure water immersion
- Contributed major technical accomplishments leading to at least 2 provisional patent applications

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-June '19**

Co-Founder *Cambridge, MA*

- Explored beachhead markets for a cell culture monitoring system with seed funding from MIT Sandbox Innovation Fund along with technical development of said platform

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
- Collaborated with clinicians at Massachusetts General Hospital in order to incorporate customer feedback for design

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

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*