

Thomas K. Eliot

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Experience

Mindtribe Product Engineering Software Engineer September 2016 - Present

- Solved complex hardware engineering problems for a variety of clients
- Led software engineering for a Cellular IoT device
- Resolved urgent and complex electromechanical product failures in FATP at a tier 1 Chinese contract manufacturer
- Developed embedded C software for a safety critical, wearable medical device with multiple processors
- Learned industry leading design and management processes for end-to-end product development

Apple Inc. Hardware Engineering Intern Jan - Aug 2014

- Performed system integration, PCB physical design, and design for test and manufacturing
- Conducted EMI prototyping, characterization and manufacturing repeatability at a foreign CM
- Debugged and characterized chipsets, leakage current, and USB 2.0/3.0
- Had ownership of system components and collaborated with cross-functional design teams

Honors Research Carnegie Mellon University Oct 2015 - May 2016

- Conducted microelectric system design for a smart pill with professor George Kelly
- Won CIT undergraduate honors research poster competition
- Simulated chip design for ingestible electronics with integrated CMOS pH sensor in Virtuoso
- Designed Verilog logic for GI tract localization

Peer Tutor, Carnegie Mellon University June - Dec 2013

Education

Carnegie Mellon University

B.S. in Electrical and Computer Engineering May 2016
University and College Honors, 3.9 GPA

International School of Bangkok, IB Diploma June 2012

Coursework

Distributed Embedded Systems	Graduate AI	Feedback Control Systems
Microelectronic Circuits	Signals and Systems	Computer Systems
Physics: Classical and E&M	Industrial Design	Digital Logic Design

Projects

Carnegie Mellon Solar Racing, Dong Solar Challenge 2012 - 2014

- Led electrical design team of 10 undergraduate engineers to compete in the Netherlands
- Designed, fabricated, installed, tested and repaired power and control systems for 7 meter solar powered electric boat
- Worked with DC motor controllers, MPPTs, Battery Management Systems, LiFePO4 Cells, High power DCDC converters, PV panels and relays

Destination Constellation, Carnegie Mellon University Jan 2016

- Led team of creatives, engineers and developers and worked with local business to create a branded experience for a local coffee shop
- Won Innovation award from Lockheed Martin and Sponsor's choice at the Build18 Hackathon
- Built CNC robot, storefront web app and generative drawing program

Capstone Design Project, Carnegie Mellon University Jan - May 2016

- Architected and wrote C freeRTOS software for the dashboard on a FSAE electric racecar
- Created schematic and board design in Altium including ARM cortex, SDRAM, LCD display, CAN interface, I2C, and two buck regulators