

CELINE TA

ENGINEERING + INDUSTRIAL DESIGN

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EDUCATION

FRANKLIN W. OLIN COLLEGE OF ENGINEERING, Needham, MA

National Merit Scholar, Candidate for Bachelor of Science, Engineering, Class of 2017

Concentration in Product Design and Development

EXPERIENCE

THE MEME DESIGN, Design Research Intern

June 2015- August 2015

- > Co-pilot agile exploration of Internet of Things (IoT) product opportunities in the home
- > Develop 5 NFC-based "works-like" physical prototypes and app mockups, conducted ~25 interviews
- > Canvas for feedback on app concept being developed in MEME Labs, ~25 interviewees over 1 week
- > Research, draft presentation materials for client IoT vision, user stories, and competitive landscape

EURO-PRO, Quality Engineering (New Product Development) Intern

May 2014- August 2014

- > Lead cross-functional investigation proposal to better understand vacuum maneuverability needs
- > Aid with prototype and post-mortem out-of-box evaluations and engineering teardowns
- > Develop real-world performance tests and key performance indices (KPIs), risk management
- > Create interview protocols, qualifiers and surveys for maneuverability research
- > Moderate both usability and observational studies (IHOSs), leading up to 3 product launches

INTUITIVE PROSTHETIC GRIP CONTROL, Electrical Lead

October 2014- December 2014

- > Integrate electrical system into software system (Arduino, signal processing) and mechanical system (wiring layout)
- > Characterize pressure sensor and power specifications, select sensors and battery for size, weight, and cost constraints

ENGINEERING FOR HUMANITY, Student Designer

January 2013- May 2014

- > Co-design and develop customized cutting board and measuring cup solutions for older adult couple, one with macular degeneration
- > Progress from in-home visits and empathy exercises to finished food-safe, durable universal design

INTERESTS

2D/ 3D DESIGN

Self- study of pop-ups, street art, and other trans-dimensional crafts that work within the constraints of built environment or strict media.

VENTURE DESIGN AND SOCIAL ENTREPRENEURSHIP

Board member of the on-campus entrepreneurship group, especially interested in social ventures as a sustainable means of making a positive impact. Worked on user research, business plan development, and product development from sustainable urban housing platform to sickle cell diagnostics.

TOOLS

DESIGN

Framework generation
Solidworks
POP, Axure RP, Invision
Adobe Creative Suite

FABRICATION

Basic machine shop training,
routing, casting, manual mill,
brazing, hand layout, 3D printing,
laser cutting

PROGRAMMING

Python, MATLAB, Arduino C,
Java

HTML/ CSS/ JS in development