

# 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

Jun 2015- Aug 2015

- > Co-pilot agile exploration of Internet of Things (IoT) product opportunities in the home, developing 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- Aug 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

Oct 2014- Dec 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

Jan 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