Clay Gimenez

Create products that make people happy

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Education

Massachusetts Institute of Technology (2014)

SM in Mechanical Engineering (4.8/5.0)

Studied product design and development

Olin College of Engineering (2012)

BS in Mechanical Engineering (3.89/4.0)

Studied engineering and product design in a rigorous, project-based setting

Professional Interests

Project management, User-centered product design, Rapid prototyping

Skills

Project management: Critical path management, Agile, Kanban, Scrum, MS Project, Trello

Hardware: Mechanical design, Machining, 3D Printing, Sheet metal, SolidWorks, MATLAB, Microcontroller C

Web: Ruby, JavaScript, HTML, CSS, Backbone.js, D3.js

Awards

NSF Graduate Research Fellowship '12

Pappalardo Fellowship in Mechanical Engineering '12

Olin College Full-Tuition Scholarship '08

Experience

Computer-aided Design Reflection Engine

MIT graduate research with Prof. David Wallace

Designed and developed a Rails and Backbone app implementing natural language processing and information retrieval to derive actionable reflections from product design data.

Senior Capstone Program in Engineering (Olin Summer 2011- Fall 2012)

Managed a team of five students working on three separate projects simultaneously

1. Designed a high-velocity data collection system for optical state estimation
2. Redesigned a submarine tail section for a major primary provider of autonomous underwater vehicles
3. Designed and prototyped a novel unmanned aerial vehicle storage and deployment system

Medical Device Design (MIT Fall 2013)

Developed a device to measure and evaluate Eustachian tube functionality. Collaborated with a clinician from Boston Children's Hospital.

Phototroph Selection Research (Olin 2009-12)

Designed and fabricated test and experimental fixtures for microbiology research at Olin College.

Capstan-based Force Amplifier (Olin 2011-12)

Designed a controllable, high-ratio force amplification mechanism using helically elastic cable capstans (Published at ASME IDETC/CIE 2012)