

Saba Fazeli

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Education

Stanford University (Stanford, CA)

B.S. candidate in Mechanical Engineering, to be conferred June 2016

2012—Present

- *Recipient of Henry O. Fuchs Award for Excellence in Design (dept. Mechanical Engineering, Spring 2015)*

Experience

Financial Manager — *Sigma Nu* (Stanford, CA)

September 2015—Present

- Manage over \$70,000 Fall 2015 budget on behalf of Stanford Residential Education, and Sigma Nu Fraternity, paying vendors, the kitchen staff, maintaining a stocked open kitchen, and funding house build projects, transportation, and university-affiliated events

Learning Experience Designer — *Design School X* (Oakland, CA)

Summer 2015

- Collaborated closely with the founder to design the philosophy, curriculum, and logistics of a new high school
- Created and tested the admissions process with parents and students, including presentations, design workshops, and the application itself, continuously reevaluating work with school philosophies and goals
- Built the school's website to be easily approached and navigated by users from all backgrounds
- Crafted the school's visual aids in Illustrator while focusing on fluidity and cohesiveness between designs

Researcher — *Department of Orthopaedic Surgery* (Stanford, CA)

September 2015—Present

- Designed and built a filament extruder to supply the lab's custom 3D printer
- Designed porous 3D scaffolds for use in orthopaedic rehabilitation surgeries
- Conducted biomechanical (compression, bending, degradation, water uptake, rheological, and in-vivo) tests to determine optimal material composition and printing parameters
- Listed as co-author and co-inventor on patent application and (soon to be published) paper manuscript

Resident Assistant — *Stanford Residential Education* (Stanford, CA)

September 2014—June 2015

- Planned, organized, and lead dorm-wide programming to foster an inclusive, safe communal environment for 300+ residents
- Engaged in conversations about difficult issues with residents—sexuality, alcohol and drug use and abuse, physical and psychological wellbeing to aid in navigating the (sometimes treacherous) Stanford experience

Project Coach / Team Member — *Design for America* (Stanford, CA)

March 2013—June 2014

- Responsible for five project team leaders, supporting them and their teams through the design process
- Led recruitment, interviews, project development, weekly coaching sessions, and team development
- Participated as a member of Chrysler-sponsored project team helping aid older drivers in maintaining their independence—presented concepts to Chrysler executives in December 2013

Skills

- Mechanical design, including user research, rapid prototyping, testing, failing, and iterating.
- Proficient in Solidworks, HSM Works (CNC software), RepRap (3D printing software), Matlab, Cantera, Java, InDesign, Illustrator, Microsoft Office, Keynote, EAGLE
- Manufacturing, including welding, machining (both manual and CNC), casting, woodworking, and circuitry
- Certified in transmission restoration and capable of performing other automotive modification and maintenance
- Fluent in Spanish and Farsi

Interests

- Windsurfing instruction and competition (4th place 2010 National Championship), surfing, swimming, downhill mountain biking (2nd place in class 2009 Sea Otter Classic), skateboarding, skimboarding, performance driving
- DJing, music production, photography, philosophy, and modern feminism
- Quality, and its role in all aspects of life—but especially as the driving force for excellent design