

MICHAEL MOSLE

Email | michael@mosle.com

Portfolio | www.michaelmosle.com

EDUCATION

- Class of 2020 **STANFORD UNIVERSITY** **STANFORD, CA**
Bachelor of Science in Engineering – Graduated June 2020 from Stanford’s Product Design Program
GPA 3.52/4.0
- Class of 2016 **ST MARKS SCHOOL OF TEXAS** **DALLAS, TX**
SAT 2330 – 770 M, 770 V, 790 W

ENGINEERING EXPERIENCE

- January 2021 **TONAL SYSTEMS** **SAN FRANCISCO, CA**
Mechanical Engineer for Hardware and Accessories Team
- Responsible for mechanical risk assessment and test planning for innovative at-home fitness company
 - Modeled in SolidWorks, coordinated with overseas manufacturers, wrote evaluation metrics for, and tested load-bearing, low-friction mechanisms to meet criteria laid out in system-level product and safety requirements
 - Collaborated with large, cross-functional team of mechanical, electrical, product, and systems engineers to prototype, build, and test to failure a variety of mechanisms to be used in the most intelligent at-home strength training system ever <https://www.tonal.com/>
- June 2019 **JAMBER, INC – HARVARD INNOVATION LAB** **BOSTON, MA**
Product Design and CAD Engineer
- Reworked mug profile, volume, and liquid-tight lid interface to build upon the patented coffee mug designed specifically for elderly, arthritic, and weak-gripped users to promote better hand health and wrist posture
 - Compared mug designs through parametric modeling in Fusion360, iterative prototyping using the Harvard Innovation Lab’s 3D printing facilities, and designing and performing quantitative user tests
 - Reconciled input from CEO, advising team of hand surgeons/occupational therapists, industrial design consultants, and DFM requirements as the only mechanical engineer employed by the startup at a time when our slip molding facilities were expanding overseas to meet increasing demand <https://www.jamber.com/>
- June 2017 **ROKA SPORTS** **DALLAS, TX**
Prototyping Engineer
- Tested and prototyped new products for elite triathletes including sunglasses, swim goggles, and straps
 - CNC cut sunglass lenses, injection molded soft goods such as goggle straps and promotional rubber coasters, and operated pad printer to apply user testing control marks to prototypes and logos to alpha products

PROJECTS AND CLASSES

- October 2020 **SANTA MAGISPHERE** **DALLAS, TX**
- Worked with Flight School (<https://flightschoolstudio.com/>) and Haptic Workshop (<https://www.hapticworkshop.com/>) on the Santa Magi Sphere, a contactless, audio-visual experience so children can interact with Santa as he socially distances from the North Pole
 - Responsible for the design, fabrication, and installation of large wood, metal, and plastic presents to house the snow globe and Santa’s animated hologram (<https://www.michaelmosle.com/santa-magisphere>)
- January 2020 **MECHANICAL SYSTEMS DESIGN – FINAL PROJECT** **STANFORD, CA**
- Designed and optimized an I-beam climbing robot (<https://www.michaelmosle.com/i-beam-robot>) using SolidWorks FEA, hand-calculations, and individual component testing
 - Team member responsible for determining motor setpoint by selecting gear ratio, voltage applied, battery size, and target climb speed in order to optimize for electrical efficiency and climb time
 - Applied various methods of stress and failure analysis to the system of joined stock and custom components
- June 2018 **ANDERSON RANCH ARTS CENTER DESIGN CLASSES** **ASPEN, CO**
- Designed and built steel light fixtures using Adobe Illustrator and CNC plasma cutter
 - Designed and built engraved wooden tabletop using Rhino and CNC mill

Technical Skills SolidWorks, Fusion360, Adobe Illustrator, FEA, DFMEA, rapid prototyping (3d printing, laser cutting, CNC)

Interests Backpacking, skiing, golfing, biking, Settlers of Catan, Stanford and Dallas sports, Formula 1