Lara Zlokapa

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Berkeley, California, USA

EDUCATION

MIT (Massachusetts Institute of Technology) Sept. 2020 - Dec. 2021 (Expected)
M.S., Mechanical Engineering
Folger Fellow

University of California, Berkeley (GPA 3.7/4.0) Aug. 2016 – May 2020 (Expected)
B.S., Mechanical Engineering
Dean's Honors List Spring 2019, College of Engineering
Highlighted Courses: Orthopedic biomechanics; product development; feedback controls; material behavior.

SPECIAL SKILLS

Design/Modeling: SolidWorks, AutoCAD, Rhino, GD&T dimensioning and tolerancing, FEA, DFM, DFS, 3D printing, machine shop skills (end mill, lathe, etc.), soldering, laser cutting, water jet cutting.
Programming: MATLAB, Python (basic), LaTeX, HTML, CSS.
Writing/Communication: Business plan author, essay-writing teacher (high school level), team policy debater.
Languages: English (native), French (intermediate), German (beginner), Serbo-Croatian (beginner).

TECHNICAL EXPERIENCE

SuitX, Emeryville, California May 2019 – Present
Engineering Intern
- Independently designing exoskeleton solutions that fit all body sizes for heavy lifting.
- CADding (in SolidWorks), FDM 3D printing prototype models, and performing user testing.
- Conducting SolidWorks FEA on all components and performing physical testing until failure.

Berkeley Expert Systems Technologies (BEST) Lab, UC Berkeley, California Sept. 2018 – May 2019
Research Intern, Drumming Prosthesis Project under Professor Alice Agogino
- Design cost-effective drumming prosthetic for trans-radial amputees with 6 MEng and PhD students.
- Analyzed drummer survey responses to establish design criteria.
- Designed, FDM 3D printed adjustable drumstick-spring holder using BioFlex for body-powered prosthesis.

Applied BioMechanics, Alameda Island, California May 2018 – Jan. 2019
Engineering Associate in Accident Reconstruction Simulation
- Simulated vehicle collisions in HVE (dynamics software) and performed manual calculations to verify results.
- Laser scanned collision sites and vehicles and created 3D models of the scans in Rhino for 30+ court cases.
- Prepared court exhibits based on analysis for Dr. Cheng's and Dr. Doherty's expert witness testimonies.

EnableTech, UC Berkeley, California Jan. 2018 – May 2018
Member, Gripper Project Team
- Designed and laser cut mechanical, cost-effective gripper in interdisciplinary team of 5 for quadriplegic user without grip strength to pick up objects from floor and shelf.

LEADERSHIP & ACTIVITIES

Human Powered Vehicles Club, UC Berkeley, California
Co-President Apr. 2018 – Aug. 2019
- Bike goal: design, manufacture, and race a bike at 70mph at the international IHPVA WHPSC competition.
- Organized and oversaw club project management, resource management, and outreach for 30-person club.
- Led frame subteam.
- Collaborated with sponsors such as General Motors or Ford.

Society of Women Engineers, Berkeley, California
Committee Member of the Month (March 2017), Shadow an Engineer Committee Member Jan. 2017 – May 2017
- Coordinated externships with 13 major companies, including AutoDesk.
- Created and evaluated applications for externships, selecting 30 out of the 60 applicants.