Lara Zlokapa

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OBJECTIVE

I am passionate about innovative mechanical design that improves people's lives. I am eager to apply my skills enable and empower others to live to their full potential.

EDUCATION

University of California, Berkeley
Aug. 2016 – May 2020
B.S., Mechanical Engineering
Current GPA: 3.60 / 4.0

Relevant Coursework:
- Design of Planar Machinery (current)
- Manufacturing and Tolerancing (current)
- Bioinspired Design
- Solid Mechanics
- Engineering Materials
- Circuit Design
- Fluid Mechanics

SPECIAL SKILLS

Design
SolidWorks
Rhino
AutoCAD
Dimensioning
Tolerancing
3D printing
Laser cutting
Soldering
Laser scanning
Adobe Creative Suite

Computer
MATLAB
Basic Arduino
Basic Python
HTML
CSS

TECHNICAL EXPERIENCE

EnableTech, UC Berkeley, CA   Jan. 2018 - Present
Member, Gripper Project Team
- Designed and laser cut mechanical, cost-effective gripper in interdisciplinary team of 5 for need-knower without grip strength to pick up objects from floor and shelf.
- 3D modeled hand grip for device in SolidWorks.

Human Powered Vehicle, UC Berkeley, CA
Member, Fairing Subteam   Aug. 2017 – present
- Designed, 3D modeled, and analyzed aerodynamics of tricycle fairing in SolidWorks and ANSYS in team of 5.
- Performed carbon fiber lay-ups to create frame and fairing of vehicle.
- Awards at ASME's E-Fest Human Powered Vehicle Challenge: 3rd place overall, 2nd place Design Award, and Craftsmanship Award out of 18 teams.

Applied BioMechanics, Alameda Island, CA   May 2018 – Present
Engineering Associate in Accident Simulation Reconstruction
- Perform and process laser scans of sites and accident collision components.
- 3D model sites and all components of accidents in Rhino for simulation.
- Analyze and reconstruct accident dynamics.

Berkeley Emergent Space Tensegrities (BEST) Lab, UC Berkeley, CA
Research Intern   May 2017 – Oct. 2017
- Designed, 3D modeled (Autodesk Fusion 360), 3D printed, and directed final production of end caps with improved durability and frictionless cable movement for 6-bar spherical tensegrity robot intended for search and rescue and as rover for Jupiter's moon Titan.
- Produced end cap dimension drawings in AutoCAD.
- Worked on overall 6-bar tensegrity robot design in team of 3 Ph.D. students and 3 undergraduate students.
- Soldered and assembled over 48 motor control circuit boards for 6-bar tensegrity robot.

LEADERSHIP & ACTIVITIES

Human Powered Vehicles Club, UC Berkeley, CA   Apr. 2018 – Present
Co-President
- Lead design of bike as well as all team meetings for 30-person club.
- Create club budget, manage club expenses, and collaborate with sponsors (such as General Motors or Ford).
- Organize, schedule, and follow up on all team activities (subteam progress, sponsor relations, outreach, etc.).

Pioneers in Engineering (PiE), UC Berkeley, CA   Jan. 2017 – May 2017
Robotics Competition Team Mentor
- Mentored team of 10 El Cerrito High School students over 8 weeks for PiE robotics competition. Guided team's game strategy and analysis, robot design process, and building of actual robot.
- Team awards: 2nd place team, PiE Season Award, Software Award finalist.