Lara Zlokapa

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Personal website: <https://lara-z.github.io>

[www.linkedin.com/in/lara-zlokapa](http://www.linkedin.com/in/lara-zlokapa)

Berkeley, California, US

# ../icons/stock-vector-classic-star-flat-icon-favorite-best-rating-award-symbol-isolated-on-white-background-550814755.pngPERSONAL STATEMENT

I am passionate about innovative mechanical design that tangibly improves people’s lives. A highly motivated team player and fast learner, I am eager to apply my engineering design, creative problem solving, and technical writing skills as well as my enthusiasm to empower others to live to their full potential.

# /Users/lara/Desktop/Education.pngEDUCATION

**University of California, Berkeley** Aug. 2016 – May 2020 (Expected)

B.S., Mechanical Engineering

* GPA: 3.60/4.00
* Relevant Coursework: Engineering manufacturing and tolerancing; design of planar machinery; bioinspired design; engineering dynamics; mechanical behavior of engineering materials; fluid mechanics; solid mechanics; thermodynamics; circuit design; linear algebra; differential equations.

# ../icons/check.pngSPECIAL SKILLS

**Design/Modeling**: SolidWorks, AutoCAD, Rhino, 3D printing, dimensioning and tolerancing, machine shop skills (end mill, lathe, etc.), soldering, laser cutting, water jet cutting, laser scanning, Adobe Creative Suite.

**Programming:** MATLAB, Python, HTML, CSS.

****Writing/Communication:** Business plan author, essay-writing teacher (high school level), team policy debater.

# TECHNICAL EXPERIENCE

**Applied BioMechanics,** Alameda Island, CA May 2018 – Present

*Engineering Associate in Accident Simulation Reconstruction*

* Perform and process laser scans of sites, vehicles, and objects involved in accidents.
* 3D model sites and all components of accidents in Rhino for simulation.
* Analyze and reconstruct accident dynamics.

**Human Powered Vehicles Club,** UC Berkeley, CA

Member, Fairing Subteam Aug. 2017 – Apr. 2018

* 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.

**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.

**Berkeley Emergent Space Tensegrities (BEST) Lab,** UC Berkeley, CA May 2017 – Oct. 2017

Research Intern

* Conceptualized progressive springs for 6-bar spherical tensegrity robot under Master of Eng. student.
* Designed, 3D modeled, 3D printed, and prototyped end caps with improved durability and frictionless cable movement for 6-bar spherical tensegrity robot for search and rescue and as rover for Jupiter’s moon Titan.
* Produced end cap dimension drawings in AutoCAD.

# /Users/lara/Desktop/Icon_PublicSpeaking1.pngLEADERSHIP & 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.).