

# Elijah Lonner



## ABOUT ME

Highly enthusiastic college senior with multi-faceted skill set, motivated to explore the convergence of form and function. I possess technical engineering knowledge which compliments a more extensive hands on building background. Not one to be pigeon-holed, I am equally passionate about art and design with an eclectic range of media spanning fiberglass to human skin.



## EDUCATION

### UCLA

BS, Mechanical Engineering | 2021  
GPA: 3.53 | Major GPA: 3.77  
Technical Breadth: Computer Science



## CONTACT INFORMATION



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Instagram coming soon...



## SKILLS

### Software

Solidworks (CAD/FEA), Creo, Ansys, AutoCAD, C++, Java, MATLAB, Excel, Adobe Illustrator, Procreate

### Fabrication

Mill, Lathe, Drill, 3D Printing, Hand and Power tools

### Visualization

Drawing, Painting, Sculpting



## HOBBIES

Art, Cooking, Athletics, Health/Nutrition, Reading, Traveling, Surfing

### General Dynamics – OTS | Mechanical Engineering Intern

Jun 2020 - Sep 2020 | Healdsburg, CA

Created and solved static structural, modal, linear, and non-linear dynamic finite element systems in order to analyze forces on control actuation system during mission. Modified and updated engineering assembly drawings in order to facilitate manufacturing line process.

### Arcadis | Technical Engineering Intern

Jun 2019 - Sep 2019 | San Francisco, CA

Designed retrofit of steel structures in single story office buildings to meet wind and seismic demands utilizing a chevron steel brace frame anchored to concrete with clevis and pin arrangement; considered effects of Euler buckling in the tension only system. Developed and analyzed finite element model of memorial sculpture to optimize and approve its strength and stability prior to construction.

### Lonner Surfboards | Surfboard Designer and Fabricator

Jun 2015 - Present | Oakland, CA

Design, shape, glass, and sand bespoke surfboards by hand. Apply CNC software to estimate dimensions and volume to meet individual customer preferences. Collaborate with clients throughout design and fabrication process to integrate customized creative elements with excellent function and performance.

### Lonner Tattoos | Tattoo Artist

Jul 2020 - Present | Los Angeles, CA

Partner with clients through the concept development, design, and tattooing process to transform their visions into entirely unique works of art.

### Ghostown Woodworks | Cabinetmaker's Assistant

Jun 2017 - Sep 2017 | Alameda, CA

Began restoration of a vintage Streamline RV with the intent of providing a modern comfort and functionality while preserving the classic personality and nostalgia. Operated heavy woodshop machinery to manufacture elegant custom cabinetry and furniture. Constructed pulley system to install steel beam as primary support of 150 sqft loft.

### Jack Stabb Contractor / Cerulean Construction | Residential Remodeler

Jun 2017/18 - Sep 2017/18 | Los Angeles, CA

Demolished and remodeled various sections of houses in teams of two or three. Examined blueprints with contractor to align on project plans and advise clients.

### Bruin Racing Club | Baja - Suspension

Sep 2019 - Dec 2019 | UCLA

Applied SolidWorks drafting and FEA software to model various suspension parts. Utilized UCLA engineering shop to machine nearly all parts created in SolidWorks. Welcomed direction and feedback from team lead as well as other sub-teams to produce stable and agile suspension system, fitting the goals of the full Baja team.

### Introduction to Engineering Design | Rockets

Mar 2019 - Jun 2019 | UCLA

Worked in pairs to create 3D printed class A rocket using SolidWorks and OpenRocket software. Designed, constructed, and tested class H rocket capable of reaching altitudes greater than a half mile in groups of five using SolidWorks and the UCLA machine shop.