

BLAZE HARRIS

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EXPERIENCE

Bike Builders of Berkeley - Head of Manufacturing / Full-Suspension Team Lead — (Aug 2021 - Present)

Club dedicated to designing and building bicycles from scratch.

- Led team of eight engineers designing and manufacturing a carbon fiber full suspension bike
 - Designed and manufactured forged carbon strength inserts in Fusion 360 using 3D printed molds and water soluble PVA filament to attain complex geometry
 - CNC cut XPS foam molds and performed wet layup and resin infusion to form carbon fiber frame
- Responsible for club-wide manufacturing design reviews to determine the best method for building components
- Worked on fork adapter incorporating load cell and Arduino collection unit to collect input data for FEA of frames
- Performed frame and component manufacturing including welding, CNC and manual machining and assembly

1971 VW Beetle Project — (May 2020 - Present)

Personal project converting a stock VW Beetle to an off-road vehicle.

- Engineered and built a Baja-style off-roader, incorporating a modern Subaru motor, ECU and fuel system
 - Rewired pinout of entire ECU to spoof signals to unneeded sensors and adapt to existing bug systems
- Designed and fabricated everything including suspension, roll cage, roof rack, exhaust, intake, and modifications to the pedal assembly for increased leg room
- Ran FEA to determine safety of critical assemblies such as pedals and motor mounts
- Completed full electrical wiring and painting

Spider Valley Guitars - Founder / Master Luthier — (Jan 2017 - Present)

Custom guitar manufacturing company.

- Founded company and outfitted shop to enable construction of high-end custom guitars
- Worked with customers to design and build bespoke, unique instruments completely by hand
- Engineered electronics to achieve optimized acoustics by altering pickup windings, capacitor, resistor and potentiometer values and circuitry design layout
- Mixed finishes and dyes based on solvent for optimal protection including shellacs and UV protective Polyurethane

Trader Joe's - Team Member — (July 2018 - Present)

National chain of neighborhood grocery stores.

- Trusted to perform end-of-shift closings and trained and onboarded new crew members
- Certified in every role and every department in multiple stores
- Tasted new products to provide key feedback and ensure customer satisfaction

Internships

Rock 'n' Roll Marathon Series & Ironman — (May 2019 - Sept 2019)

- Worked with senior leadership to research new markets and report on opportunities
- Recruited and organized volunteers for events

Via International — (Jan 2017 - Dec 2019)

- Worked locally and abroad (Guatemala, Mexico) in community development programming
- Helped organize events such as planting gardens, beehive building, school restoration
- Performed office and administrative tasks in support of team

EDUCATION

University of California, Berkeley — (Sept 2020 - Present)

Major: Mechanical Engineering

Member of Cal Mountain Biking team and Cal Ski team

KEY SKILLS

- **Software:** Fusion 360, Solidworks, MatLab, Python, Logic Pro
- **Manufacturing:** TIG, MIG, Stick welding, 3D Printing, CNC Machining, Laser Cutting, Carbon Fiber and Fiberglass Layup, Metal Machining Tools including Lathe and Mill, Woodworking Tools, Automotive Restoration/Repair, Electronics (Soldering, PCB Soldering, Basic System Design)