



Reuben Lewis

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SKILLS

Computer Aided Design

- Onshape
- SOLIDWORKS
- Fusion 360
- ANSYS Mechanical

Rapid Prototyping

- SLA Printing
- FDM Printing
- Sheet Metal
- CO2 Laser Cutter
- Vacuformer
- ShopBot CNC

Metal Fabrication

- 3-Axis CNC Milling
- Bridgeport
- Hurco WinMax
- Tormach PathPilot
- TIG Welding
- MIG Welding
- CNC Plasma Cutting
- OMAX Waterjet
- Ironworker Machine

Computer Programming

- Python
- R
- Java
- MATLAB

AWARDS

Best Use of External Data (April 2023)
 Olin ASA Data Fest

Certificate of Special Congressional Recognition (July 2021)
 The Honorable Barbara Lee
 In recognition of contributions to team science.

Neodymium Industrial Design Award (May 2021)
 FIRST Robotics
 Awarded to robotics team for robot design.

Editors Choice Award (August 2018)
 Bay Area Maker Faire
 Awarded for virtual reality interactive simulator software project.

XR Edu Challenge Second Place (June 2018)
 XR Edu
 XR Edu hackathon for virtual reality development in education.

CERTIFICATIONS

OSHA Forklift Certification (June 2022)
 American Safety Council

WORK EXPERIENCE

Olin College Machine Shop (January 2023 - Present)
 Student Instructor

- Supported students in coursework, research, and personal projects
- Fostered inclusivity, accessibility, and creativity for students
- Trained students on CNC milling operation, powder coating, and sheet metal work

Olin College Machine Shop (May 2023 - July 2023)
 Shop Fellow

- Developed and executed shop improvement projects
- Redefined shop mission and future goals
- Completed work orders for project teams and researchers

TWIST Lab (August 2022 - Present)
 Researcher

- Researched bio-mimetic soft robotic systems
- Designed pneumatic artificial air muscles and exoskeleton structures
- Manufactured components using SLA printing and lathe operation

Berkeley Unified School District (September 2018 - July 2022)
 Stage Manager

- Oversaw theatre operations during performances with more than 2,400 attendees
- Installed more than 600,000 dollars worth of audio and lighting equipment
- Managed a 7 person team during live shows
- Designed and manufactured full scale set pieces
- Operated advanced projection mapping equipment
- Worked more than 1,000 show and prep hours

Berkelium Robotics (August 2018 - July 2022)
 Design Lead

- Leader of 100+ person robotics team
- Designed award winning robot using Onshape
- Contributed to website design and code base
- Manufactured robot parts using CNC milling and 3D printing
- Wrote web articles to increase community engagement

City of Berkeley Robotics Summer Camp (June 2022 - July 2022)
 Teacher

- Developed lesson planning and curriculum design
- Wrote curriculum documentation
- Oversaw 30+ students
- Taught robot design programming, and CNC milling

National Energy Research Scientific Computing Center (June 2021 - July 2021)
 Intern

- Collected millions of data points using python
- Analyzed data using pandas and matplotlib
- Ran analysis programs using high performance computing
- Published research results internally

Stay True Cycles (June 2021 - July 2021)
 Intern

- Restocked parts and tools
- Worked on bikes using a wide array of tools and techniques
- Tested bikes for quality assurance

EDUCATION

Franklin W. Olin College of Engineering (August 2022 - Present)
 Engineering Concentrating in Robotics

- Design Nature
- Modeling and Simulation of the Physical World
- Quantitative Engineering Analysis
- Infrastructure Studies
- Data Science
- Quantitative Engineering Analysis 2
- Products and Markets
- Introduction to Mechanical Prototyping
- Introduction to Sensors, Instrumentation and Measurement

Wellesley College (January 2023 - Present)
 The Climate Crisis and the Liberal Arts

Berkeley City College (September 2021 - June 2022)
 Calculus 3A

Berkeley High School (August 2018 - June 2022)