



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

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 C# Java

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

- Foster inclusivity, accessibility, and creativity for students
- Train students on CNC milling operation
- Support students in course work, research, and personal projects

Olin College Machine Shop

(May 2023 - July 2023)

Shop Fellow

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

TWIST Lab

(August 2022 - Present)

Researcher

- Researching bio-mimetic soft robotic systems
- Design pneumatic artificial air muscles and exoskeleton structures
- Manufacture 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 a robot that won an internal competition
- Contributed to website design and code base
- Manufactured robot parts using both additive and subtractive manufacturing
- Used computer aided design to represent mechanical assemblies in a digital environment
- Wrote web articles to increase community engagement

City of Berkeley Robotics Summer Camp

(June 2022 - July 2022)

Teacher

- Lesson planning and curriculum design
- Curriculum documentation
- Oversaw 30+ students
- Taught robot design and programming
- Taught 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 on a supercomputer
- Published research results

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