Michael Dresser

(650) 521-3046 michaelmdresser@gmail.com

Skills:

Project management: organizing data and materials, spreadsheet management, Gantt chart creation, small team management

Computers: programming in Java, Python, and C++; computer troubleshooting; computer construction

CNC machining: 3-axis mill CAM, G-code, and operation

Technical theatre: circuiting, gelling, focusing, fly rail operation, light board operation

Work Experience:

Gunn Robotics Team Gunn High School, Palo Alto, CA   2014-2016

CNC Lead
- Fabricated complex sheet metal and box beam parts, organized team scheduling, planned and executed training program for other students.

Strategy Lead
- Formed and lead group to inform robot design process and develop a comprehensive scouting system for use in current year and the future.
- Developed Python application for streamlined data entry and analysis of scouting data

Scouting Co-Lead
- Designed scouting system to complement GRT's robot, created data collection sheets, managed scouting and spreadsheet analysis. System enabled GRT to progress far in elimination matches by picking well-matched teams.

CNC Machinist
- Fabricated complex sheet metal and box beam parts, assisted in management of fabrication scheduling, and improved machining efficiency to meet high part demand.

Prototyping
- Designed and constructed a flywheel launching system with teammates for a t-shirt robot that launched t-shirts over 50 feet. Integrated mechanisms on the t-shirt robot.

Gunn Theatre Gunn High School, Palo Alto, CA   2012-2016

Stage Manager
- Organized rehearsal scheduling, coordinated multiple directors, coordinated tech and acting during production and performance, and ran shows.

Assistant Stage Manager
- Helped run rehearsals, prepped stage with spike tape, maintained stage materials, operated fly rail, and set up and operated various elements including fog machines and curtain dropping mechanisms.

Electrician
- Circuited, gelled, and focused instruments, operated light board during focus, and reweighted arbors.

Spangenberg Theater Company Palo Alto, CA   2015

Student Technician
- Assisted in load in, performances, and load out of shows. Circuited, gelled, and focused instruments. Reweighted arbors and operated fly rail during performances.

Allana Buick and Bers, Inc. Palo Alto, CA (*Architectural Engineering firm*)   2014

Intern
- Organized easy-to-access contract system. Provided front desk support

Education: University of Colorado Boulder   *estimated graduation May 2020*

Pursuing B.S. in Computer Science

National Merit Scholarship Finalist