

JOHNATHON LU

1446 Ford Avenue, San Jose, CA 95110 | (916) 595-8464 | johnathon.lu@sjsu.edu

SUMMARY

Computer Engineer at San Jose State University with over three years of experience of finding and creating solutions for complex design problems. Passionate about both the mechanical and software side of the development process while leveraging my experience in CAD, fabrication, and programming languages with the hopes to develop myself and a better future for the community.

EDUCATION

San Jose State University, College of Engineering San Jose, CA

Bachelor of Science in Computer Engineering, Expected December 2024

- **GPA:** 3.5/4.0 | **Honors:** Dean's Scholar Fall 2021

Henry M. Gunn High School Palo Alto, CA

Aug 2017 – Jun 2021

- **Cumulative GPA:** 3.8/4.0 | **Honors:** National AP Scholar with Distinction

WORK EXPERIENCE

Spartan Racing San Jose, CA

ICU Project Lead Aug 2019 – Jul 2021

- Designed and manufactured the driver's heads-up display and GUI using Arduino software and C++ that sends and receives information with other modules through a CAN bus

Gunn Robotics Team Palo Alto, CA

Website Manager Aug 2019 – Jul 2021

- Designed and manufactured the omnidirectional drive train and other mechanisms on the robot using Autodesk Inventor, metal lathe, mill, and other machine tools for the FIRST Robotics Competition
- Rebuilt and managed the team's custom website that utilized XML and CSS, while learning more about backend website development software such as MySQL and FileZilla, an opensource FTP software

Palo Alto Recreation Palo Alto, CA

Camp Counselor Jun 2021 – Aug 2021

- Facilitated small projects for multiple groups of 10 middle school aged campers during a newly formed maker summer camp for the City of Palo Alto to help develop a greater passion of seeing their ideas take shape with their own hands
- Taught basic safety and operation of tools and machines such as the bandsaw, drill press, wood lathe, and laser cutter

My Mask Movement Stanford, CA

Assembly Intern Jun 2020 – Aug 2020

- Worked in-person during the early beginnings of the COVID pandemic in a small group of three to quality check, assemble, package, and send 3D printed custom-fit masks to frontline health workers in hospitals and pharmacies

LEADERSHIP & ACTIVITIES

MakeX Palo Alto, CA

Shop Manager & Lead Mentor Jun 2017 – Aug 2021

- Oversaw and managed a small public student-run makerspace with the goal of creating a safe space for youths and to develop creativity through project-based learning
- Responsible for staffing the makerspace, recruiting and training new mentors, and maintaining the power tools and other machinery
- Helped organize a movement to supply hospitals and other marginalized communities in the Bay Area with opensource 3D-printed face shields, leading to supply over 200,000 face shields in total

Gunn Aeronautics Association Palo Alto, CA

Team Captain and Club President Jun 2018 – Jul 2021

- Lead the planning of all events and functions for a 20+ student team competing in The American Rocketry Challenge, a national competition consisting of 700+ teams to design, build, and launch rockets aiming for exact parameters
- Taught and trained new members of the team the basics of rocketry and our design choices for that year

SKILLS

Skills: Java, Python, C++, HTML, CSS, metal mill and lathe, laser cutter, 3D printer, Autodesk Inventor, Chinese (Cantonese)