

Tristan Huynh | tristanhuynh-me.com

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EDUCATION

Bachelor of Science in Mechanical Engineering | San Jose State University

May 2024

WORK EXPERIENCE

Tesla | Fremont, California

January 2024 – May 2024

Quality Engineering Launch Intern, Exteriors and Closures

- Refined 2024 Model 3 performance spoiler, validated spoiler installation jig and trained 15+ associates on optimal install process
- Minimized critical errors in production by designing checking fixtures and jigs, reduced hood closing failure rate by 30%
- Continuously refined and trialed new supplier parts to ensure quality, worked cross-functionally with NPI, SIE, and Process
- Led 100-part trial during production, implemented changes from GFSH, insured part readiness and addressed arising concerns
- Root-caused defective parts, quickly implemented short and long-term solutions to ensure production continues
- Documented and resolved all issues with performance build before SOP, validated DFMA of components and updated issue tracker
- Conducted critical quality validation on 25+ media cars, water leak testing, part reinstallation, NVH/BSR tests

General Motors | Brownstown, Michigan

June 2023 – August 2023

Manufacturing Mechanical Engineering Intern

- Piloted manufacturing of new battery module, led weekly problem resolution meetings, drove timely solutions to critical issues
- Devised process to efficiently measure (CMM) Corvette Eray drivetrain parts for manufacturing, performed gage R&R studies
- Assessed unique issues and root-caused cell prep equipment, recommended necessary changes, increased production yield
- Utilized EXCEL to create a running summary of battery module scrap, used pivot charts to analyze data, resulted in \$100,000 saved
- Coordinated the implementation of an automated inspection tool, increased CMM scanning efficiency by 80%.
- Discovered lead issues for vehicle assembly scrap, returned defective parts and dealt with supplier-related issues

Wolfspeed | Durham, North Carolina

June 2022 – August 2022

Equipment Engineering Intern

- Strengthened semiconductor production by working with equipment engineers to perform gas cabinet labeling, leak checking, tool installation, and cable wiring
- Developed 7+ detailed procedures, in ETQ database, that will help equipment engineers integrate future tools efficiently
- Optimized HMI screen installation process by 3-D printing new cutout template, improved consistency between machines, reduced downtime by 50%

Applied Innovation Group, Inc. | San Jose, California

September 2019 – December 2019

Manufacturing Intern

- Collaborated with engineers on a 5-person team to manufacture and assemble 100+ products for multiple turnkey projects
- Streamlined quality control by having more frequent inspections, increased overall efficiency by 15%
- Organized bill of materials of company's clients to ensure proper documentation of paperwork at end of each week

PROJECTS

Human Powered Vehicle Challenge | SJSU ASME club

August 2020 – December 2020

- Designed frame, axle, and various other customized components for recumbent bike on SolidWorks
- Prototyped fitting for recumbent bike frame using machine shop tools such as drill press, band saw, spot welder, etc.

Design the Future | Stanford

June 2018

- Applied product design processes such as design thinking and rapid prototyping throughout a 2-week program
- Built a custom retractable desk which also serves as a storage space to help improve quality of life of project partner

LEADERSHIP ACTIVITIES & VOLUNTEER EXPERIENCE

Vietnamese Eucharistic Youth Movement | Youth Leader

October 2019 – Present

- Teaching 40+ kids weekly about Catholicism, Vietnamese, and survival skills through interactive lessons and activities
- Conducted monthly meetings to plan and delegate tasks for large group events such as retreats, fun days, and yearly camps

The Braven Accelerator | Fellow

August 2021 – December 2021

- Capstone challenge: led a team of 6 members to solve a problem NetApp faced, launched a prototype of a website and flier for NetApp event, received 90% approval ratings from users, presented idea to NetApp executives

Boy Scouts of America | Eagle Scout

May 2014 – May 2019

- Managed 30+ volunteers in month-long service project, renovated community garden, created detailed schedule with deadlines
- Established life skills relevant to workforce such as communication, personal management, and family life through merit badges

AWARDS, TECHNICAL SKILLS, & INTERESTS

Honors & Awards: Eagle Scout, Dean's Scholar, San Francisco Bay Area Mentor Scholarship

Skills: Vietnamese, SolidWorks, CATIA, Jira, Autodesk Inventor, Microsoft Office, CMM, Machine Shop & Power tools, GrabCAD, MATLAB, LabVIEW

Interests: Camping, Hiking, Outdoors, Bowling, Nature, Fitness