JONATHAN MENDOZA

linkedin.com/in/jm139 • mendozajonathan053@gmail.com • (213) 239-4046

EDUCATION

California State University, Los Angeles
Bachelor of Science in Mechanical Engineering   Sept 2015 – May 2020
Minor in Computer Science

EXPERIENCE

TRAK Machine Tools, Rancho Dominguez, CA
Junior Mechanical Engineer   Feb 2021 – Present

- Managing TRAK's product lifecycles through Engineering Change Requests and New Product Introductions.
- Using SolidWorks to design new mechanical parts, assemblies, and systems for TRAK's CNC machines.
- Creating Engineering BOMs with SolidWorks Professional Database Management and SolidWorks Manage.
- Drafting 2D drawings to pass off to CNC machinists for the prototyping and production phase of a product.
- Applying ASME Y14.5 guidelines for GD&T on mechanical drawings as and when necessary for critical parts.
- Providing feedback to electrical engineers on the routing and installation of wires and cable assemblies.
- Assisting senior engineers by 3D printing parts using different plastic materials and rapid prototyping them.
- Communicating with multiple suppliers on CAD requests, quality assurance, and inspection procedures.
- Attending daily meetings with the Hardware Team to share projects' progress and roadblocks.
- Writing procedures to aid technicians in the assembly and inspection of CNC machines.

Maxwell Vehicles, Los Angeles, CA (Remote)
Mechanical Engineering Intern   Aug 2020 – Nov 2020

- Designed shipping packages' parts and assemblies using SolidWorks for Maxwell's electric ProMaster (ePRO).
- Created build drawings for assemblies so a technician can construct the shipping packages multiple times.
- Organized Bill of Materials for the ePRO shipping packages per the SolidWorks assemblies and requirements.
- Worked independently while reporting to a supervisor daily on the project's progress, questions, and feedback.

PROJECTS

Design and Fabrication of a Crash Sled System   Aug 2019 – May 2020
Senior Capstone Project, California State University, Los Angeles

- Led a team of 4 students to design and fabricate an crash sled system for a professor's research project.
- Utilized SolidWorks for the crash sled's design and drawing for the purpose of fabricating the mechanical parts.
- Conducted stress analysis on key components to ensure durability under operational conditions with FEA.
- Collaborated with the Engineering department's professors and technicians to utilize resources for the project.
- Presented the project's scope of work, design, outcomes, and setbacks in a remote symposium.
- Passed off the project's results and CAD models to the professor who would share with the next design team.

SKILLS

- **Softwares**: SolidWorks, Inventor, DraftSight, AutoCAD, MATLAB, Arduino, MS Suites
- **Programming Languages**: Java, Python, PHP
- **Technical Skills** 3D Printing, Data Acquisition, Data Management, Drafting, Prototyping
- **Languages**: English (Native), Spanish (Fluent), Portuguese (Fluent)

CERTIFICATIONS

- Engineer in Training (EIT), NCEES, Issued Feb 2020
- Certified SolidWorks Professional (CSWP), Dassault Systèmes, Issued Nov 2020