

Victor Alejandro Paez

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PROFESSIONAL SKILLS AND INTERESTS

- Leadership
- Writing and Verbal Communication
- Computer Aided Design (CAD)
- Analytical
- Teamwork
- Time Management

EDUCATION AND PROGRAMS

Bachelor of Science in Mechanical Engineering California State University Northridge (2016-2021)

Graduation Date: May 2021

- Major GPA: 3.85/4.00
- Dean's List since Start in 2016
- LabView (Novice)
- MATLAB Onramp Training Course Completed (Novice)
- SolidWorks w/ Simulation (Intermediate)
- Autodesk Fusion 360 w/ CAM (Novice)

SAE Aero Design Competition:

(June 2020 - May 2021)

• **Structures Team Lead** - Led team with 10 members throughout the Aerodynamics Senior Design project where we were tasked on building a Remote Control (RC) Cargo Plane for the SAE Aero Design Competition 2020-2021. Oversaw organizing team collaboration through remote and in person meetings, managing schedules and deadlines, assigning tasks to meet competition requirements, researching structural concepts, using Solidworks to create 3D CAD Models, performing FEA through SolidWorks Simulation, and writing and presenting our projects CDR and PDR for competition

• **Wing Sub-Team Lead** - Led team with 5 members where we were tasked with building and stress testing the wing components for the SAE Aero Design Competition. Organized team collaboration, managed schedules, created the wing design using SolidWorks and Autodesk Fusion 360, performed FEA to determine failure loads for safety of the aircraft, assisted with CFD to determine lift and drag of the wing, manufactured and assembled the model to be compatible with the rest of the assembly.

Machine Shop Workshop:

(July 2019)

- Completed and passed a machine shop workshop that went over the safety procedure and use of Mills, Lathes, Band Saws, and Drill Presses.
- Hands on experience in operating the machines safely and learned the general uses for which parts to use for each device

Machine Shop Club Member:

(2019-2021)

- Hands-on experiences working with standard machines such as Mills, Lathes, Band Saws, and Drill Presses

Relevant Classes Geometric, Dimensioning, & Tolerancing (ME 434), Computer Aided Design with Simulation (ME 386), Engineering Materials (MSE 227), Machine Design (ME 330), System Dynamics (ME 384), Kinematics of Mechanisms (ME 415), Hydraulics (ME 493), Vibration Analysis (AM 410), Strength of Materials (CE 340)

PROFESSIONAL SKILLS DEMONSTRATED

Machinery Mechanic/Warehouse Manager (**Dermalactives: Cosmetics Company**)

(May 2021 – Present)

Machinery Mechanic:

- Troubleshooting problems and creating solutions for machines in the warehouse
- Performing maintenance and fixing problems that arise on the job for machines
- Solving problems by taking precautionary measures before problems arise to keep machines operating for maximum use
- Researching parts to solve machinery issues to create easier operations for the workers
- Creating solutions for new machinery and parts to create a more efficient workflow in the production area

Warehouse Manager:

- Utilize Excel, Word Doc, Google Sheets and Google Docs to create programs to track and organize inventory
- Writing code through Google App Script to create programs that are easily activated through a button on Google Sheets for workers to be able to easily use
- Created Google Sheet for physically locating inventory, creating data logs, and organizing physical inventory in a manner that is easily viewable and accessible for workers on the floor
- Use multiple sources of data to develop plans for maintaining inventory demand, determining production plans, optimizing inventory order flow, and maximizing warehouse space
- Create workflow processes to linearize certain procedures and keep workers on the same note
- Use QuickBooks for inventory management and data collection to use in google sheets
- Able to handle pressure and come up with solutions quickly when needed
- In communication with all departments to ensure inventory and upcoming projects are managed in a timely manner

OTHER RELEVANT INFORMATION

Other Languages: Spanish (Bilingual, Intermediate)

Computer Skills: Excel and VBA (Intermediate), Word/PowerPoint (Intermediate), Sheets/Docs (Intermediate)

Accolades:

- CSUNPosium** - Attended the CSUN showcase and presented on the structure analysis around an airplane wing from our senior design project, including Solidwork CAD models and FEA results (April 2021)
- SAE Aero West Presentation** - Presented and received 4th place for our presentation in the SAE Aero Design Competition for 2021 (April 2021)