

# Victor Alejandro Paez

E: [paez.a.victor@gmail.com](mailto:paez.a.victor@gmail.com) | T: +1 (818) 858-4117

W: <https://paezvictor.com/>

---

## 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, 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, 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 Machine Shop Workshop learning safety procedure, applying engineering concepts and utilizing a variety of machines such as Mills, Lathes, Band Saws, and Drill Presses
- Hands on experience operating machines safely and learning general use cases for each machine to create different parts of an assembly

### 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

### Dermalactives:

#### Machinery Mechanic

(May 2021 – January 2022)

- Applied troubleshooting techniques to identify root causes of failures in equipment to implement solutions for reducing downtime, improving reliability and keeping operations running smoothly
- Analysis and developed preventative maintenance methods to mitigate downtime, reduce breakdowns and improve safety for equipment and team

## **Manufacturing Operations Manager**

(January 2022– Present)

- Designed and maintained data-driven tracking systems using Excel and Google Sheets in association with QuickBooks to improve inventory accuracy, organization, and accessibility to make it easy for the team
- Automated processes using Google Apps Script to increase efficiency and reduce time with data management during daily operations
- Analyzed operational and inventory data to improve workflows, material flow, and make use of storage space more efficiently within a high-volume production workplace
- Create clear and standardized workflows and procedures to improve consistency, coordination, and overall system efficiency across teams
- Coordinated start-to-finish project planning for major projects by managing work timelines and production workflows, ensuring projects were completed efficiently to meet vendor requirements and deliver on or ahead of schedule
- Collaborated with multiple departments to ensure project planning and inventory are managed efficiently to reduce project delays and avoiding production downtime that can cause inventory mismanagement

## **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 of 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 in the SAE Aero Design Competition for 2021 (April 2021)