

JAVIER AROCHA

U.S. Citizen

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Professional Summary

Design-driven Aerospace Engineer with mechanical experience and deep expertise in SolidWorks, precision tooling, and manufacturing documentation. Skilled at translating complex concepts into manufacturable designs that improve accuracy and production efficiency.

Skills & Certifications

Skills:

English & Spanish
Microsoft Office
SolidWorks
Manufacturing
Sheet metal

3D printing

Documentation

ASME Y14.5 GD&T

CNC machining

FT-IR testing

Tooling

Certifications:

SolidWorks:

CSWA Associate (2021)

CSWPA Drawing Tools (2022)

CSWP Professional (2023)

Six Sigma:

White Belt (2024)

Experience

Crew Tool

Orlando, FL

Design Engineer

Sep. 2024 – Sep. 2025

- Performed quality inspections using Hexane testing, FT-IR material analysis, and dimensional verification to ensure tools met engineering drawings and specification tolerances
- Developed sealant application and removal tools in compliance with Spirit AeroSystems aerospace standards, improving consistency and ease of use on the shop floor
- Enhanced existing tool designs by improving ergonomics, durability, and manufacturability while maintaining strict industry and customer requirements

Airgroup Dynamics Inc.

Orlando, FL

Mechanical Engineer

May 2021 – Sep. 2024

- Produced 50+ ASME Y14.5-compliant technical drawings, improving manufacturability and reducing shop-floor rework
- Established a 3D-printing prototyping pipeline that boosted iteration speed and prototyping productivity by 30%
- Enhanced regulatory compliance by conducting FAA-aligned quality assurance assessments across multiple aircraft components
- Increased tooling readiness by auditing and updating 2,000+ capability folders, identifying and resolving gaps in required tooling

Florida Space Institute

Orlando, FL

Engineer Intern

Jan. 2021 – May 2021

- Supported NASA–UCF research efforts by building and preparing hardware used to study regolith behavior in zero-gravity and sub-freezing environments
- Applied engineering fundamentals to assemble, verify, and troubleshoot experimental tools that enabled collision and material-interaction testing

Education

University of Central Florida

Orlando, FL

Bachelor of Science in Aerospace Engineering

May 2024

Miami Dade College

Miami, FL

Associate of Arts in Mechanical Engineering

May 2020