

# 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