

Jacob Crofford

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SKILLS

Leadership, Program Management, Design Software NX, Solid Works, DFM Pro.

Northrop Grumman Launch Vehicles

6-2024 – to date

Launch Vehicles: Manufacturing Engineering / Integration Engineer:

Designing production and prototype integration fixtures and tools. Beta testing and developing the training for a new MFG integration design software DFM Pro.

6-2023 – 6-2024

Launch Vehicles: Mission Assurance Engineering:

Prepared, Participated and lead final out Product Customer Audits. Performed and completed Technical Data Analysis, Containment, Corrective Actions and Preventative Action duties to support customer interactions.

Chewy Distribution Center

May 2022 – Aug 2022

Various position

Crofford Consulting LLC, Chandler AZ

Jan. 2020 - Current

- Technical Program Management "Microsoft Project"
- Eng / MFG design, modeling, and prototype concepts Solid Works.

EDUCATION

Northern Arizona University, Flagstaff AZ - Mechanical Engineering: Graduation 5-2025

August 2021 – Current GPA 3.8 Dean's List

Sr. Capstone Project: Selected for the First Nations Launch 2025 MARS Competing. Sponsored by NASA

Team Role: Manufacturing/Safety Lead

Competition challenge is avionics based with teams being required to implement a total of five different sensor subsystems, a pitot tube for airspeed calculations, a pressure sensor to measure atmospheric pressure in the rocket's avionics bay, an inertial measurement unit to track orientation, a load weight cell for acceleration, and strain gauges for fin deflection. Competition Launch: April 2025, Launch Location Wisconsin Space Grant Consortium.

Agua Fria High School, Avondale AZ

August 2017 - May 2021

GPA 4.0 Weighted 4.7

AWARDS

Academic

2021 Graduated Academically in the top 10% of class.

2017 - 2021 Agua Fria Dean's List.

Athletics

2017 Most Improved Cross Country.

2018 Most Improved Track and Field.

2020 Awarded Character Matters Award Track And Field

2021 Owl Pride Award for Track and Field.

2019-2021 Cross Country / Track and Field Team President.