

WYATT WATSON

505-412-7992

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EDUCATION

BS Mechanical Engineering 2019-2023

Northern Arizona University

Flagstaff, AZ

- 4.0 GPA; Dean's List
- Expected Graduation: May 2023

RELEVANT WORK EXPERIENCE

Merrick & Company: Mechanical Equipment Engineer Intern (May 2022 – Present)

Los Alamos, NM

- Part of a 15-person equipment design team, daily communication with equipment, electrical, and process engineers
- Designed plutonium processing equipment in support of the 30 pits per year goal at DOE Los Alamos National Lab
- Model 5-10 equipment parts per week for room layout drawings, dropboxes, and gloveboxes
- Leading modeling of components such as a dropbox shell and cutouts for appurtenances for 5 drawing deliverables

Northern Arizona University: Fluid Mechanics Grader/Teaching Assistant (Jan 2022 – May 2022)

Flagstaff, AZ

- Produce keys for daily class assignments, grade homework and provide constructive feedback to students

Northern Arizona University: Machine Shop Manager (Feb 2020 – March 2022)

Flagstaff, AZ

- Management and supervision of 15-20 engineering students per day along with weekend trainings to learn advanced machinery (vertical mills, lathes, CNC machines, welders)
- Completed (machined) 15 work orders for research teams, capstone students, and classes
- Assign self-learning projects for two shadow students

Jona Manufacturing Services Inc.: Machinist Intern (May 2021 – Aug 2021)

Los Alamos, NM

- Component designs for nuclear equipment including drawings, fabrication, and manufacturing for DOE clients at Los Alamos National Lab
- Interpreted engineering drawings using GD&T to produce 20 precision machined parts to specifications

MAJOR PROJECTS

ESCAPADE Mars Mission Camera Instrument

Flagstaff, AZ

Northern Arizona University

Jan 2022 – Present

- Team lead for mechanical Mars dual wavelength instrument (2024 expected launch)
- Principle designer of camera system including housing, access panels, cable routing, fasteners, and thermal and visible camera. Also conducting instrument stress/random vibe analysis.
- Preliminary design review completed (4/2022) and critical design review (CDR) in October 2022
- Machining housing and mounting panels post-CDR

Honda EV Conversion Kit Capstone

Tempe, AZ

Hasport Performance Inc.

Aug 2022 – Present

- Design and manufacture an electric motor kit to mount a 350 hp Tesla motor, 16 batteries and sellable to consumers

SKILLS

Design Software: Creo Parametric 7.0 (6 months), Solidworks (4 years), AutoCAD (1 month), Onshape, Autodesk Fusion 360, Windchill PDMLink

Programming: Matlab (2 years), Python

Machining: Manual & CNC mills, lathes

Analysis: FEM in Ansys Mechanical including Random Vibe/Modal Analysis

STUDENT LIFE AND VOLUNTEERISM

Society of Automotive Engineers Club – Treasurer

- Track expenditures and procurement requests for 3 separate accounts

Amor Ministries Volunteer – Member (Puerto Peñasco, Mexico)

- Volunteered with a team of 70 others to build 15 impactful homes for low-income community members for 4 consecutive high school spring breaks