

Matthew Martinez

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EDUCATION

Bachelors, College of Engineering, Informatics, and Applied Sciences | NAU

Mechanical Engineering w/ Minor in Biology, 2022-08 – Current

KEY SKILLS

MATLAB	Microsoft 365	Ansys
SolidWorks	3-D Printer Operation	Numerical Analysis
Structural Analysis	Rheometer Operation	Project Management

PROFESSIONAL EXPERIENCE

Archer Western Construction, Tucson, AZ

May 2025 - August 2025

Intern

- Assisted in monitoring project budgets by compiling equipment invoices, tracking costs, and managing trucking and material delivery tickets.
- Supported the creation of work plans for all Definable Features of Work by referencing drawings, submittals, and specifications.
- Maintained critical project logs and managed the filing of key project documents.
- Conducted surveying of structure points and offsets, checked elevations, interpreted construction blueprints and plans, and provided some hands-on assistance to craft labor.

Biomedical Devices Lab - Northern Arizona University, Flagstaff, AZ

August 2024 - May 2025

Lab Assistant

- Aided other researchers in projects by operating various machines: rheometer, 3-D printer, and lab X-ray.
 - Used FEA to predict the mechanical behavior of medical devices without the need to construct physical prototypes.
 - Constructed 3D models of medical devices using CAD software
 - Setting up physiologically relevant benchtop model, assisting “surgeons” with procedure.
 - Performed mechanical testing of various stent models utilizing rheometer
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CERTIFICATIONS

Accident & Health or Sickness, Life License
National Insurance Producer Industry

Machine Shop Certification (Mill)
Northern Arizona University

EXTRACURRICULAR ACTIVITIES

Investment Club
Northern Arizona University

Theta Tau Omicron Epsilon Chapter
Marshal, Jan 2026 - Present