

Colin Donnellan

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**Objective-** Motivated Mechanical Engineering student at Northern Arizona University seeking an internship to apply technical knowledge, gain hands-on industry experience, and contribute to innovative engineering solutions in a collaborative environment.

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### Skills

- **Engineering Software:** Proficient in **MATLAB**, **SolidWorks**, and **Excel** for simulation, 3D modeling, and data analysis.
  - **Analytical Thinking:** Strong problem-solving skills through coursework in mechanical systems and hands-on projects.
  - **Team Collaboration:** Proven ability to work effectively in diverse teams, balancing technical input with project goals.
  - **Communication:** Clear and professional communication in both written reports and team presentations.
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### Education

**Northern Arizona University** – Flagstaff, AZ

**B.S. in Mechanical Engineering** *August 2022 – Present*

- Lumberjack Scholarship recipient for academic excellence
  - Relevant Coursework: *Statics, Dynamics, Thermodynamics, Materials Science, Machine Design, Fluid Mechanics, Engineering Design*
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### Engineering Experience

**Engineering Design Projects:** Northern Arizona University- *Ongoing Team & Individual Projects*

- **Autonomous Sumo Bot:** Fully designed and programmed a functional autonomous sumo bot capable of environmental sensing and navigation with the goal to knock the opponents out of the ring and be last one standing.
  - **Rehabilitation Robotic Arm (Capstone):** Currently developing a robotic arm to assist stroke patients with upper limb rehabilitation using human-centered design principles
  - **SolidWorks Modeling:** Created detailed 3D CAD models and assemblies for mechanical components and systems
  - **MATLAB Simulations:** Performed simulations and data analyses for thermodynamic cycles and mechanical designs
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### Professional Experience

**Sodexo** – Flagstaff, AZ

*Food Service Associate | August 2022 – Present*

- Delivered efficient, friendly service in a fast-paced dining environment
- Strengthened communication and collaboration to ensure smooth daily operations

**SkyZone Trampoline Park** – Chandler, AZ

*Team Member | May 2023 – August 2023*

- Supervised guest activities to ensure safety and compliance with rules
- Supported operational tasks including cleaning, setup, and customer engagement

**Barnes & Noble** – Gilbert, AZ

*Bookseller | June 2021 – August 2022*

- Provided exceptional customer support and product knowledge to diverse clientele
  - Collaborated with a team to manage store organization and maintain customer satisfaction
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### Certifications

- **OSHA 10-Hour General Industry Safety and Health Certification** – April 2020
- **MATLAB Onramp Certification** – August 2024