

Holden Gardner

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Education

B.S. Mechanical Engineering, Northern Arizona University, *Flagstaff, AZ* | May 2024

- Related Coursework: Engineering Design Methods and Processes, Mechanics of Materials, Machine Design, Thermodynamics, Fluid Mechanics
- Energy Club member

Core Qualifications

- Computer Aided Design
- MATLAB programming language
- 4+ additive manufacturing slicing software
- Naturally effective communicator
- High sense of integrity and group purpose
- Innate quiet leader

Work/Leadership Experience

Department of Energy Collegiate Wind Competition, Project Manager Aug 2023 – Present
Flagstaff, Arizona

- Effectively managing wind turbine subsystem integration to build a small scale wind turbine
- Leverage Gantt chart to keep all aspects of the project on-track
- Conduct cross-disciplinary meetings with electrical engineers to implement well communicated solutions
- Partner with subject matter experts and subteam leaders asynchronously to ensure the team is agile
- Develop and revise quality standard documentation based on deliverable need and team direction

POBA Medical, Engineering Intern May 2023 – Present
Flagstaff, Arizona

- Engage in research and development projects, utilizing self and school taught techniques to design for manufacturing processes
- Partner with cleanroom operators to design logically sound and user-friendly hardware adjustments based on unique client needs
- Maintain organizational skills with shared Trello tasks to effectively multitask in a dynamic environment
- Communicate complex analytical obstacles with experienced engineers for advice on self-initiated projects
- Support and train junior interns in data management, 3D printing techniques, and CAD skills

Bioengineering Devices Laboratory, Co-Principal Investigator Jan 2023 – Present
Flagstaff, Arizona

- Developing iterative thrombosis mold prototypes based on aggregate material properties
- Participate in the design of in-vitro studies:
 - Scale vascular networks for benchtop aneurysm modelling
 - Perform mechanical testing on swine tissues and mimic properties with alginate blends

Other Skills

- ANSYS fluid flow and stress simulation
- Working proficiency in Geometric Dimensioning and Tolerancing for engineering drawings
- QBlade aerodynamic analysis software
- Continuous development of hands-on mechanical skills with personally owned vehicle
- Foundational wiring skills for repurposed systems
- Sets quality standards and early initiative for project groups

References

Devon Martindale

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Peer