CADEN BARANOWSKI

Mechanical Engineering Student | Design • Analysis • Manufacturing • Project Coordination

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EDUCATION

University of Utah — B.S. Mechanical Engineering **2024 - Present**

Relevant coursework: Statics, Dynamics, Materials Science, Circuits, Differential Equations & Linear Algebra, Numerical Methods / MATLAB

ENGINEERING EXPERIENCE

KHI Mechanical | *Engineering / Project Management Intern* **2026 - Present**

West Valley City, UT

- Support mechanical construction and coordination for a large hospital project, working with plumbing, hydronic, duct, electrical, and fire-protection trades in shared BIM models.
- Create and revise 3D Revit models and fabrication drawings for field installation, including piping layouts, hangers, sleeves, dimensions, and constructability details.
- Use Revit, Navisworks, BIMPro, and Bluebeam to identify clashes, coordinate building systems, document field issues, and communicate design changes with project teams.
- Perform seismic-support calculations and assist with hanger/support planning, prefab coordination, procurement tracking, and drawing/model updates for technicians and field crews.

Civica Rx | *R&D Process Engineering Intern* **2024 - 2025**

- Supported process-engineering work for pharmaceutical manufacturing, including equipment, mechanical devices, manufacturing-line development, and plant-flow considerations.
- Contributed to engineering problem solving and development activities with an emphasis on manufacturability, process efficiency, and reliable operation.

Barney Trucking | *Operations / Data Support* **2024 - 2026**

West Valley City, UT

- Managed and updated customer rate data in Excel and SharePoint, maintaining accurate pricing information and cross-department communication.
- Collaborated with teams to analyze rate adjustments and support cost-efficiency, reporting, and operational decision-making.

ENGINEERING PROJECTS

Pipe Jig Design | *Current Project* | *Target completion: October 2026*

- Designing a practical pipe jig with emphasis on repeatable positioning, fabrication usability, and an efficient shop/field workflow.

Autonomous Solenoid-Launching Robot | *University of Utah*

- Programmed autonomous motion, position tracking, reload timing, route selection, and launch calculations incorporating angle, distance, and air resistance.
- Integrated competition-map inputs so the robot could select an efficient route and automatically move, reload, aim, and fire under timed conditions.

Water Pump Design Project | *University of Utah*

- Designed and built a water-pump system that moved approximately 7.5 gallons in one minute, achieving a department/class performance record.

TECHNICAL SKILLS

CAD / BIM: SolidWorks (Certified), Revit, Navisworks, BIMPro, Bluebeam | **Programming / Analysis:** MATLAB, Arduino C, LTspice, Excel | **Engineering:** 3D modeling, technical drawings, mechanical design, fabrication coordination, seismic calculations, data analysis