

James Brickner

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SKILLS

Softwares/Languages: Solidworks, AutoCAD, MATLAB, C++, Revit, Microsoft Office Suite

Skills: Project Management, Cross-functional Teamwork, Competitive Analysis, Market Research, Stakeholder Presentation

Relevant Coursework: Design in Mechanical Engineering, Statics, Operations Management, Competitive Analysis Seminar

Certifications: AWS Fundamentals of Machine Learning & AI

EDUCATION

The Ohio State University, College of Engineering

Expected Graduation 05/2028

BS Mechanical Engineering, Business Minor

3.98 GPA

- **Honors in Integrated Business and Engineering:** 1 of 36 Engineering students admitted out of >600 Honors Engineering Applicants to four-year honors program. Program emphasizes innovation, product development/design and interdisciplinary teamwork through specialized business, engineering and MBA-style courses.

WORK EXPERIENCE

Sauer Group, LLC, BIM and CAD Coordinator, QAQC

May 2024-Present

- Coordinated mechanical piping layouts in Revit for large scale construction, ensuring fabrication efficiency.
- Worked with field professionals to create and manage, schedule and order batches.
- Created automated systems in Stratus to batch and record orders of coordinated mechanical systems.
- Supervised 2 employees to manage the fabrication and construction of three 500k+ sq. ft. buildings.

Code Ninjas, Coding Instructor

July 2021-December 2022

- Taught programming fundamentals (JavaScript, C#, block coding) to students aged 5-15.
- Developed curriculum for Boy Scouts to earn merit badges in a week-long camp.

PROJECTS

Baja Buckeyes SAE – Drivetrain and Business Subteams

- Co-authored a technical report and presentation to qualify and present at second round of Baja SAE business event.
- Redesigned selectable 4WD components in SolidWorks with FOS of 2.1 using dog tooth clutch system.
- Designed front hub and combined axle yoke to inboard for better turning radius and driver feel.

DineIQ: A Sensor System to Connect Restaurants to Customers

- Created comprehensive business model and MVP for a mobile app to optimize restaurant traffic.
- Obtained pilot restaurant, calculated that wait times could decrease by 15% while increasing profits by 25%.
- Authored written report with market research documenting the design, verification and validation processes.
- Presented technical pitch to panel of 5 real-world investors and professionals in the innovation space.

OSU Engineering Department Software Design Showcase

- Utilized C/C++ to code fully working educational game to assist students with studying using Proteus.
- Voted best software created in honors engineering class of 36 students, representing my class at the showcase.

INVOLVEMENTS

Tau Beta Pi, Ohio Gamma Chapter – Top 7.5% of engineering students with junior class standing.

BCG Launch – Career development program in the strategic consulting industry