JEREMY GILHART

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EDUCATION

Purdue University May 2026
Bachelor of Science in Mechanical Engineering
GPA: 3.9 / 4.0
Relevant Coursework: Algorithms and Data Structures, Object-Oriented Programming, Systematic Program Design, Data Science, Build a Modern Computer from First Principles, Automotive Vision, Measurement and Control Systems

PROFESSIONAL EXPERIENCE

Kautex Textron Jan 2025 - Apr 2025
Global Design Team Intern *Bonn, Germany*

- Developed a macro in VBA to automate a bill of materials and precisely calculate the cost of goods, reducing an eight-week agile sale quote process into a highly efficient, automated system
- Authored 50+ pages of documentation detailing knowledge to save future programmers time and effort
- Improved intercultural communication skills through collaborating on a highly international team

Farber Specialty Vehicles June 2023 - Aug 2023
Mechanical Engineering Intern *Columbus, Ohio*

- Developed internal app to automate file generation and replace a 1 hour process with a sub half minute automation, resulting in a future elimination of $2500 software subscription and 100+ engineering hours
- Built custom automation tools to create basic geometries in AutoCAD, improving engineering efficiency

PROJECTS

Climbing Ticks

- Built data visualization tool to extract data from digital logbook and map outdoor climbing progress using React, Python, NextJS, AWS Lambda, and Vercel

BoilerBookings.com

- Optimized Python code improvements to follow object-oriented design principals, improving site scalability
- Deployed MongoDB while following SCRUM on 11 person development team

SimpleRE

- Developed IOS app in Swift/SwiftUI to model real-estate portfolios and elegantly display financial data

LEADERSHIP

Purdue Climbing Club
President

- Organized various weekly events and student trips, resulting in membership growth from 100 to 350+
- Climbed competitively at the collegiate level, placing 6th at Collegiate Nationals for Male Top Rope in 2024

Purdue Solar Racing
Chassis Lead

- Spearheaded the manufacturing of carbon fiber composite lay-up of student built vehicle's aerodynamic shell
- Led team in the strength testing of composite attachment mechanisms to ensure compliance with race regulations

SKILLS

Programming:	Python, Java, C, MATLAB, Swift, HTML, CSS, JavaScript
Technologies:	React, NextJS, AWS Lambda, MongoDB, GitHub, Vercel, JUnit Tests, Microsoft Power Apps