

JULIAN BANKIER

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Summary

Mechanical engineering student with hands-on experience in prototyping electrical systems, aerospace systems, and energy technologies. Seeking opportunities to apply design and manufacturing skills to innovative mechanical and aerospace solutions.

Experience

- WPI | Teaching Assistant- Intro to Thermodynamics | Worcester, MA** **01/2026 - Present**
- Assisted in the education of new Mechanical Engineering students
- WPI | Major Qualifying Project | Worcester, MA** **08/2025 - Present**
- Collaborated with JPL to develop and submit a proposal for the US Government's Lunar Nuclear Power Plant design.
- Kasaero | Intern | Stuttgart, Germany** **09/2025 - 12/2025**
- Engineered specialized landing gear for e-air taxis, reducing runway requirements by 40% and improving overall flight safety.
 - Maintained and tested fuel cell systems for HyFly, a hydrogen-powered aircraft, ensuring system reliability and performance.
 - Modeled and refined electric aircraft fuselage designs, contributing to prototypes now entering production.
- SpadxTech | Intern | Worcester, MA** **03/2025 - 05/2025**
- Engineered an automatic pH balancer, increasing large scale production by 50%.
- Energy Company of Ghana | Lead Engineer | Dwenase, Ghana** **01/2025 - 03/2025**
- Created utility expansion plans for water and electrical infrastructure in Ghana, now being implemented by local authorities.
 - Increased the town's population with access to utilities by 40%
- Metre | Intern | Oakland, CA** **05/2024 - 09/2024**
- Designed and prototyped a heating system for acetone breathalyzers, improving efficiency by 20% and cutting development time by 15%.
- Game On | Intern | Berkeley, CA** **05/2023 - 09/2023**
- Optimized arcade game design to enhance durability by 30%.
- Metro Hop Inc. | Intern | Berkeley, CA** **05/2023 - 09/2023**
- Worked alongside the founders of a Silicon Valley UAV startup to build Serno 1 prototype.

Skills

Design: SolidWorks, MasterCam, 3D Printing, System Design, Laser Cutting, CNCing
Coding: C++, Python, HTML, Java
Languages: English (American Citizenship), Swedish (EU Citizenship)

Relevant Course Work

Thermodynamics, Fluid Mechanics, Mechanical Design, CNC Manufacturing

Education

Worcester Polytechnic Institute (WPI)
Mechanical Engineering | 05/2026

3.4 GPA Cum Laude