

DANIEL BILOUS

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EDUCATION

Rice University – Houston, Texas

Degree: Bachelor of Science in Mechanical Engineering

- Minors: Business; Computational and Applied Mathematics

GPA: 3.63

May 2028

EXPERIENCE

Rice Eclipse – Houston, Texas

August 2025 - Current

Rocket Recovery Engineer

- Optimized rocket designs using OpenRocket simulations to increase average projected apogee by 125% compared to previous iterations.
- Design bulkheads and interstage connections in SolidWorks to ensure structural integrity and precise mechanical integration.
- Calculate precise explosive charge amounts using MATLAB to ensure safe stage separation and reliable parachute deployment.
- Constructed an L1-Class rocket airframe and recovery system utilizing quantitative research and small-scale manufacturing processes.
- Achieved a projected apogee of 2,960 feet by leveraging SolidWorks modeling and flight simulation software for trajectory analysis.

Future Forward Foundation (F3 Global)

October 2025 – Current

Nonprofit Consultant Analyst

- Conduct extensive market research to aid global small businesses receiving microloans with data-driven consulting strategies.
- Performed equity research on global microloan institutions across peer-to-peer, institutional, and fintech models, analyzing market landscapes across APAC, Latin America, and MEA regions to identify strategic expansion opportunities and inform foundation decisions.
- Leverage Excel and PowerPoint to synthesize financial data and deliver actionable conclusions to implement microloan models.
- Spearhead global talent sourcing across the UK, Australia, & Japan to successfully establish new branches and expand organizational reach.

Kesem – Houston, Texas

August 2025 – Current

Outreach Committee

- Executed a key growth strategy by spearheading communications to establish a partnership between Kesem Rice and Rotary of Houston.
- Implemented equitable family sourcing to ensure organizational mission and community outreach served the whole greater Houston area.
- Managed all primary lines of communication with client families by conducting monthly cold calls to 15+ families to provide key updates.
- Developed cold calling techniques and advanced interpersonal communication to strengthen relationships and ensure family engagement.

Baker Alumni Committee – Houston, Texas

August 2025 - Current

Board Member & Columnist

- Draft and distribute a monthly newsletter to Baker College alumni providing qualitative reports on college events and student life.
- Increased alumni engagement metrics by 20% across first semester by delivering consistent, high-quality observations of community events.
- Organized complex caregiving logistics for the Baker Alumni Reception Dinner, successfully coordinating the experience for 107+ alumni.

United States Department of State – Cuenca, Ecuador

July 2024 - August 2024

Youth Ambassador

- Selected as one of 16 ambassadors from a nationwide pool of 2,000+ applicants for a competitive diplomacy and leadership program.
- Focused extensively on international policy and cross-cultural communication through rigorous U.S. Department of State diplomatic training.
- Conducted qualitative research on socio-economic challenges of indigenous communities through ethnographic interviews and case studies.
- Synthesized comprehensive research findings into a final capstone project and delivered presentations in Spanish to local cultural centers.

Northbrook Park District – Northbrook, Illinois

May 2023 - Current

Lifeguard

- Collaborated within a high-performing team to uphold elite operational safety standards and maintain an incident-free environment.
- Contributed directly to the facility achieving two separate 5-star safety and performance audits through rigorous adherence to protocols.
- Served as the primary point of contact for guest relations, managing daily facility usage for 300+ guests while ensuring positive experiences.
- Employed de-escalation techniques to successfully resolve guest concerns, enforce facility policy, and preserve customer satisfaction.

Glenbrook North High School – Northbrook, Illinois

January 2024 - May 2025

VEX Robotics Captain

- Pioneered the school's first competitive robotics program, building a 10+ person team from the ground up and establishing all operations.
- Established operational processes for the club including budget management, material sourcing, and comprehensive CAD training protocols.
- Coordinated cross-functional workflows between four design/fabrication sub-teams under a tight schedule to ensure project completion.
- Achieved a 40% improvement in performance by creating a platform to validate work and boost teamwork through competition.

ADDITIONAL

- Technical Skills:** CAD (SolidWorks), Java, MATLAB, Microsoft Office (Excel, PowerPoint, Word), Python, Welding
- Honors:** QuestBridge Scholar (2025), National Council of Teachers of English Achievement Award in Writing – Superior (2024), Rotary Youth Leadership Award (2024)
- Language Fluency:** English (Native), Bulgarian (Native), Spanish (Advanced), Russian (Conversational)
- Interests:** Cooking, Football, Golf, Pickleball, Philosophy, Poker, Weightlifting, Woodworking