

# DANIEL BILOUS

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## EDUCATION

Rice University – Houston, Texas <b>Degree: Bachelor of Science in Mechanical Engineering</b>	GPA: 3.63 May 2028
▪ Minors: Business; Computational and Applied Mathematics	

## EXPERIENCE

Rice Eclipse – Houston, Texas <b>Rocket Recovery Engineer</b>	August 2025 - Current
▪ 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) <b>Nonprofit Consultant Analyst</b>	October 2025 – Current
▪ 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 <b>Outreach Committee</b>	August 2025 – Current
▪ 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 <b>Board Member &amp; Columnist</b>	August 2025 – Current
▪ 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 <b>Youth Ambassador</b>	July 2024 - August 2024
▪ 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 <b>Lifeguard</b>	May 2023 - Current
▪ 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 <b>VEX Robotics Captain</b>	January 2024 - May 2025
▪ 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.	
<b>ADDITIONAL</b>	
▪ <b>Technical Skills:</b> CAD (SolidWorks), Java, MATLAB, Microsoft Office (Excel, PowerPoint, Word), Python, Welding	
▪ <b>Honors:</b> QuestBridge Scholar (2025), National Council of Teachers of English Achievement Award in Writing – Superior (2024), Rotary Youth Leadership Award (2024)	
▪ <b>Language Fluency:</b> English (Native), Bulgarian (Native), Spanish (Advanced), Russian (Conversational)	
▪ <b>Interests:</b> Cooking, Football, Golf, Pickleball, Philosophy, Poker, Weightlifting, Woodworking	