

MARCO VAZQUEZ

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EDUCATION

The University of Texas at Austin , Austin, TX	B.S., Computational Biomedical Engineering Advanced Mathematics Certificate Overall GPA: 3.83	May 2027
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PROJECTS

Pneumatically Actuated Assistive Glove <i>Solidworks, Arduino, Mechatronics</i>	March 2024 - January 2025
- Utilized CAD to model and render glove design, supporting iterative prototyping and spatial integration of hardware - Integrated robotic actuators, Arduino microcontroller, and a custom fluidic control circuit simulating natural flexion	
Urban Expansion Simulation <i>Python, Matplotlib, OOP</i>	April 2025
- Designed and implemented a cellular automata model to simulate urban expansion and its effects on population density and predator-prey dynamics - Applied object-oriented programming principles to structure species behavior, reproduction, and mortality rules, adapting probabilities to reflect pre- and post-expansion environments - Developed data visualization tools with Matplotlib to generate spatial grids and time-series plots, illustrating ecosystem interactions and population trends across 200 simulated months	

LEADERSHIP EXPERIENCE & ACTIVITIES

Alpha Consulting Group – <i>Junior Consultant</i> ; Austin, TX	March 2025 - Present
- Utilizing quantitative modeling and technical analysis to evaluate financial projections and business feasibility - Collaborating with a team to develop actionable recommendations for small businesses and startups pro bono - Collecting and analyzing local data from Austin businesses, communities, and public sources to inform client strategy	
Iota Capital Management – <i>Junior Analyst</i> ; Austin, TX	March 2025 - Present
- Participating in weekly meetings, covering latest market watches, industry reports, and deal announcements - Deliver bi-weekly industry overviews and market analyses, enhancing team understanding of investment strategies - Creating monthly stock pitches, requiring in depth market analysis, both by industry promise and data analysis	
Texas Capital Team – <i>Senior Analyst</i> ; Austin, TX	January 2025 - Present
- Founding member of Texas Capital Team, preparing members for success in Investment Banking and Private Equity - Helped outperform the S&P 500 index by 8% over 3 months through investment selection and risk management - Conducting fundamental and technical analysis on US equities across sectors including technology and healthcare - Leading the energy sector team, delivering stock pitches and presenting key industry deals to enhance member insights	
Biomedical Engineering Society – <i>Active Member</i> ; Austin, TX	August 2024 - Present
- Collaborated with interdisciplinary engineering teams in case competitions to develop innovative solutions to real-world problem prompts - Assisting in fundraising events for organization events, including 2 Case Competitions hosted for engineering students - Hosted campus outreach tables to engage engineering students for events and recruitment	
Student Investment Group – <i>Founder & President</i> ; Austin, TX	August 2022 - April 2024
- Created 32 lesson plans and led discussions surrounding the stock market and principles of trading for a class of 40+ - Mentored and led students in a virtual stock exchange, in which students actively applied taught skills, attaining a mean percentage gain of ~14% over a 4.5 month period - Spearheaded establishment and expansion of club to 50+ members within my small STEM school	

ADDITIONAL INFORMATION

Technical/Computer Skills: Advanced Excel, PowerPoint, PowerBI, Proficient Python, R Studio, CAD, SQL, AWS

Certifications: IBM Databases and SQL for Data Science with Python

Languages: English (Fluent), Spanish (Receptive)

Work Eligibility: Eligible to work in the United States with no restrictions

Interests: Triathlon & Cycling, MMA, Backpacking, Karting, NBA, Films, Cars, DJing, Fashion, Foodie, Bouldering, UFC

Other Activities: Alpha Kappa Psi Business Fraternity, University of Texas Brazilian Jiu Jitsu, SHPE