

Maxwell Tobin

maxwell.tobin@duke.edu | (508) 333-9693 | [linkedin.com/in/maxstobin/](https://www.linkedin.com/in/maxstobin/) | Franklin, MA

EDUCATION

- Duke University | Durham, NC | GPA: 3.72** **May 2027**
- **Major: Electrical and Computer Engineering (B.S.E.)**
 - **Minor: Financial Economics**
 - **Relevant Coursework:** Practical Financial Markets, Investing in Climate Solutions, Macroeconomics, Microeconomics, Prediction Markets, Statistics, Data Structures & Algorithms
- Franklin High School | Franklin, MA** **May 2023**
- Class Valedictorian, Rank: 1/430 | SAT: 1510 (Math: 800, R&W: 710)

EXPERIENCE

- FlexGen Power Systems | Systems Engineering Intern | Durham, NC** **May 2026 – Present**
- Develop validation frameworks for battery solutions serving AI data centers, translating power usage research into actionable test plans
 - Build simulated test environments for battery storage controls, enabling pre-deployment validation and reducing on-site integration risk
 - Optimize network configuration tools to automate manual setup, cutting setup time by ~50% and eliminating errors across projects
- Honda Aircraft Company | Systems Integration and Test Engineer Intern | Greensboro, NC** **May 2025 – Aug 2025**
- Automated a test system for landing detection as sole project manager; self-taught CAD to design the full mechanical and electrical build
 - Designed a steering control system by using a lever mechanism to double the output speed for accurate, real-time simulation
 - Redesigned cockpit panels by adapting new-aircraft design to legacy dimensions, cutting costs 73% (\$43k) via in-house 3D printing
 - Built a cockpit lighting test fixture by designing clamps and signal paths that replaced manual checks with real-time pass/fail visibility
- Buyers Edge Platform | Data Intern | Waltham, MA** **Jun 2024 – Aug 2024, Jun 2022 – Aug 2022**
- Identified and fixed multi-system data discrepancies by cross-referencing Salesforce and internal databases to resolve 500+ client tickets
 - Streamlined Jira workflows by using conditional logic, smart filtering, and process visualization, cutting ticket resolution time ~40%
 - Developed dashboards used by 100+ employees to track ticket trends and bottlenecks, helping QA teams resolve recurring issues faster
 - Standardized ticket intake by redesigning Jira and documenting workflows, which reduced follow-up messages and accelerated resolution
- SAT Math Group Tutoring Business | Founder | Franklin, MA** **Jan 2023 – Jul 2023**
- Restructured tutoring unit economics by shifting from 1:1 to 10-student group sessions at \$30 each, scaling hourly revenue 10x to ~\$300
 - Generated \$6K profit in 5 weeks by designing a free SAT cheat sheet that served as a customer acquisition tool and in-session reference

PROJECTS

- AI Investment Research Platform** **Apr 2026 – Present**
- Independently building an AI-powered investment research platform that automates company screening and analysis for energy transition deals, classifying deal type, retrieving filings, and producing structured investment memos
- Custom Processor & Embedded AI System | Tic-Tac-Toe** **Jan 2026 – Apr 2026**
- Engineered a Tic-Tac-Toe game with a custom processor, AI logic, hardware inputs, and live display output on a programmable chip
 - Optimized AI decision-making logic with a specialized algorithm, ensuring consistent processing speed regardless of complexity
 - Resolved live gameplay glitches by isolating AI logic from display output, preventing incomplete AI decisions from rendering on screen

ORGANIZATIONS

- Duke Real Estate Club | Analyst** **Apr 2024 – Present**
- Lead team research analyzing commercial real estate markets and present investment thesis, building fluency in CRE investment strategy
- Pi Kappa Phi Fraternity | Executive Board** **Apr 2024 – Present**
- Steer executive board on chapter operations by providing strategic input that shapes key decisions across a 100-member organization
- Duke AERO | Payload Team** **Aug 2024 – May 2025**
- Created circuit boards and wiring diagrams for a high-altitude payload, supporting a successful rocket launch to 30,000 ft
 - Architected a computer vision system to guide autonomous recovery to the designated landing zone after a high-altitude descent

SKILLS & INTERESTS

- **AI & Programming:** Claude Code, Codex, Python, C++, MATLAB/Simulink, CATIA (CAD), Java, C, and SQL
- **Data & Analytics:** Excel, PowerPoint, Word, Salesforce, Tableau, Visio, Jira, Confluence, and Grafana
- **Interests:** Renewable energy technology, investing, game theory, machine learning, fitness, soccer, violin, traveling, and Spanish