

Elyas Y. AlBattat

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Objective

ECE undergraduate at Georgia Institute of Technology with hands-on experience in computational materials research and embedded systems prototyping. Background spans both academic research and industry internships across three countries. Seeking a summer 2027 internship in the semiconductor industry to bridge research experience with industry practice, working toward a career in power optimization design.

Education

Georgia Institute of Technology | Atlanta, GA

Bachelor of Science in Electrical Engineering, GPA 3.48

August 2025 – Present

Expected Graduation, May 2029

KAUST's Gifted Student Program (KGSP) Scholarship

August 2024 – May 2029

Foundation Year Program at North Carolina State University | Raleigh, NC

August 2024 – May 2025

Courses: Calculus, Chemistry, Academic Writing, Survey in AI, Data Science in Tableau. GPA 4.0

Skills

Programming: Python, MATLAB, C++

Hardware: Arduino

Software: CAD 3D Modeling

Professional Organizations: Silicon Jackets

Communication: Design proposals, technical reports, research posters, presentations

Languages: English (fluent), Arabic (fluent), Spanish (intermediate)

Experience

Computational NanoBio Technology (Dr. Seung Jang) Lab | Atlanta, GA

January – May 2026

Undergraduate Researcher

- Worked on material simulations in Molecular Dynamics and Density Functional Theory to study Zinc ion batteries. Investigating the relationship of dendrite formation and its impact on band gap.
- Attended weekly lab meetings alongside graduate researchers, gaining exposure to advanced simulation workflows and academic discussions.

LivedIn (Antler Incubator) | Riyadh, Saudi Arabia

May – August 2025

Growth & Strategy Intern

- Secured 12 B2B partnerships with real-estate developers, expanding the company's vendor network.
- Built a comprehensive tracking website to streamline vendors' bidding, reducing response time by ~25%.

King Fahd University for Petroleum and Minerals | Dhahran, Saudi Arabia

November 2022 – April 2024

Research Assistant

- First project, reduction of Graphene Oxide with nuclear radiation (40% more efficient than benchmark),
- Second project in Carbon Dioxide capture Metal-Organic Framework (66% more efficient and 2x cheaper),
- The third in SuperAbsorbent Polymers in collaboration with Tasnee Petrochemicals R&D department.
- Presented my research findings via graphing data, vocal presentations, posters, and academic research papers for publications.

Projects

Embedded System Ship Classification with Artificial Intelligence | Saudi Port Authority Hackathon

October 2023

- Concatenated the hardware (Arduino and sensors using C++) of prototype and modeled CAD models of ships. Installed pre-trained AI model to go through the database of the Panama Canal.
- System preformed >95% accuracy which automated and streamlined the classification process.
- World Robot Olympiad First place nationwide and bronze medalist internationally.

Activities

• Georgia Tech Triathlon Club Treasurer

August 2026 – Present

• Outdoor Recreation Caving Instructor-in-Training

April 2026 – Present

• Goeorgia Tech Saudi Student Association Finance Officer

January – May 2026