# George I. Habashi

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## PROFESSIONAL SUMMARY

Undergraduate Student. Passionate about bridging software engineering with real-world hardware applications such as EV telemetry and performance diagnostics. Seeking internships and entry-level opportunities in software development, embedded systems, and automotive technologies.

## EDUCATION

**- Bachelor of Science in Computer Science**, Minor in Software/Web Design
University of Houston | Expected Graduation: December 2025
**- Relevant Coursework:** Data Structures, Object-Oriented Programming, Web Development, Mobile Application Development, Database Management, Algorithms, Embedded Systems with Arduino, AI Fundamentals

## TECHNICAL SKILLS

**- Programming Languages:** C++, C, Java, Python, JavaScript, Kotlin, MATLAB, CSS, Firebase
**- Tools & Platforms:** Android SDK, Visual Studio, AutoCAD, WordPress, TINA TI, Blender, Microsoft Office.

## INTERNSHIPS and PROJECTS

-**Egyptian Space Agency (EgSA):** 8-week internship, on-site internship designing software for low-cost 'cube' satellites launched into the Low Earth Orbit by weather balloons. We worked on satellites ranging from one CubeSat Unit (1U) to (6U). Working as a team, we learned to demonstrate satellite operations, developing a secondary SW for cubes utilizing Python and C++, for taking pictures of the surface (data gathering), and a SW to control magnetorquers for orientation control. Fall, 2022 | Cairo, Egypt.

-**Android SDK Development:** 6-Week team project using Kotlin and utilizing Firebase DB, making a "Diet Trak" on how to manage a diet and give you healthy meal recommendations based on the user's favorite food, weight targets, and food price. We utilized Firebase as our database, with Google and Facebook logins, and learned to program using Kotlin and Java. Summer, 2022 | Cairo, Egypt.

- **Graduation Project: Medical research:** utilizing QCNN (Quantum Convolutional Neural Networks) with Tensor-Flow to classify fMRI brain imaging into an Autism patient or not (used ABIDE II dataset to train the model), we achieved +90% detection accuracy due to quantum computer implementation. Fall 2023 | CIC University, Cairo, Egypt.

**- Web Development:** Created a portal, with the Help of John Hanna (C.S. student in our church), for Sunday school students and servants for our church (Archangel Raphael Coptic Orthodox Church of Houston) Link: http://aar-sds.atwebpages.com Current | HOU, USA.

**- Undergraduate Research** (Supervised by Prof. Zhigang Deng, Department of Computer Science, University of Houston)
+ *Analysis and Modeling of Human Behaviors in Multiparty Conversations*: -
I am assisting in the development and training of a real-time motion mapping algorithm to predict the next speaker in multiparty human conversations using 3D motion capture (my role), spoken language recognition, and eye-tracking data to model human conversational dynamics. Current | HOU, USA.

## HOBBIES in TECHNICAL EXPERIENCE

**- Arduino-Based C++ Vehicle Dashboard Telemetry** | EVER IV (Electric Formula Student in Egypt)
+ Built and programmed a real-time dashboard for an electric race car using Arduino
+ Integrated speed, RPM, and battery sensors to provide efficient driver feedback
+ Focused on optimization and performance data acquisition

**- Aerodynamic Design**| EVER IV (Electric Formula Student in Egypt)
+ Utilized Ansys (AutoCAD & MATLAB) to design and test the fiberglass body for the vehicle, targeting a Cd. Of 3.0, which we achieved a massive improvement over the previous year's design, which achieved a Cd. Of 3.7 (and looked bad).

## CURRENT WORK EXPERIENCE (in US)

**Cook & Cashier | Whataburger | March 2023 – Nov 2024**
+ learned to balance work and academic life, working full-time overnight and going to university as a full-time student during the day.

## EXTRACURRICULARS & INTERESTS

**+ Church Technical Service:** Webpage designer, database manager for Sunday school students
**+ Hobbies:** Story writing, model airplane design, flight dynamics, reading crash investigation reports
**+ Languages:** - English (Fluent) -Arabic (Fluent) -French (Basic)