

George I. Habashi

Georgelhab2@gmail.com | US Permanent Resident | www.linkedin.com/in/george-habashi | <https://georgeihab2.github.io/portofolio/>

Summary

Passionate about bridging software engineering with real-world hardware applications such as telemetry and performance diagnostics. Determination in motivating opportunities in software development, full-stack development, embedded systems, and automotive technologies.

Education

- **Bachelor of Science in Computer Science**, Minor in Software Senior Sequence
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

Experience

- **SW intern (CubeSat-I) | EgSA (Egyptian Space Agency):**
 - Collaborated on software design for low-cost CubeSats (1U–6U) deployed via weather balloons.
 - Developed Python and C++ software for data acquisition (surface imaging) and implemented magnetorquer control for satellite orientation.
 - Demonstrated teamwork, problem-solving, and system simulation under real-world constraints.

Fall, 2022 | EgSA, Cairo, Egypt.
- **Undergraduate Research Assistant | Prof. Zhigang Deng, Department of Computer Science, UH**
+ *Analysis and Modeling of Human Behaviors in Multi-party Conversations:* -
 - Assisting in modeling and predicting human conversational behavior using 3D motion capture and AI.
 - Analyzing multimodal motion data to develop a real-time next-speaker prediction algorithm.

August 2025 - Current
- **Full-Stack Web Development | Archangel Raphael Coptic Orthodox Church:**
 - Developed and managed an online portal for Sunday school students and servants with role-based access in our church.
 - Programmed secure user authentication, grade-specific quizzes, lessons, and videos using PHP, MySQL, HTML, CSS, and JavaScript.
 - Integrated database-driven lesson management to improve accessibility and content delivery.

June 2025 - Current | Test link: <http://aar-sds.atwebpages.com>
- **SW Design, QuantaMedics (Medical-AI Research) | Graduation Project (CIC University):**
 - Utilized Quantum Convolutional Neural Networks (QCNN) with TensorFlow to classify fMRI brain scans for autism detection using the ABIDE II dataset.
 - Achieved over 90% detection accuracy by integrating quantum computing techniques into the model.
 - Documented and validated findings for academic submission.

Fall 2023 | CIC University (New Cairo Campus), Egypt.
- **Android SDK Development | Team Project:**
 - Designed and developed "Diet Trak," a B2C mock health-tracking Android app using Kotlin, Java, and Firebase.
 - Implemented secure user authentication via Google and Facebook APIs.
 - Streamlined diet recommendations through data-driven algorithms and responsive UI design.

Summer, 2022 | Cairo, Egypt.
- **Cashier | Whataburger | 18190 Gulf Fwy, Friendswood, TX 77546**
 - Balanced full-time overnight shifts with a full-time academic schedule.
 - Demonstrated teamwork, adaptability, and reliability under fast-paced conditions.

March 2023 – November 2024

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

Extracellular

- + **Church Technical Service:** Designed and managed the church's web database system for Sunday school.
- + **Hobbies:** Story writing, model airplane design, and flight dynamics research.
- + **Languages:** English (Fluent), Arabic (Fluent), French (Basic)
- + **Arduino-Based C++ Vehicle Dashboard Telemetry and Aerodynamic analysis| EVER IV (Electric Formula Student in Egypt)**
 - Programmed a real-time dashboard for an electric race car using Arduino HW
 - Integrated speed, RPM, and BMS data to provide effective driver feedback
 - Utilized Ansys (AutoCAD & MATLAB) to design and test the fiberglass body for the vehicle, targeting a Cd. Of 3.0, we achieved an improvement over the previous year's design, and we achieved a Cd. Of 2.8
- **Cougar Racing | University of Houston**
Participating member contributing to vehicle system integration, telemetry data acquisition, and hardware-software synchronization.

Reference

- Professor: Zhigang Deng, email: zhigang.deng@gmail.com, Office PHG 228 | (713) 743-1018