George I. Habashi

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PROFESSIONAL SUMMARY

Passionate about bridging software engineering with real-world hardware applications, and determinant in finding motivating opportunities in software development, full-stack development, 3D Modeling, Aeronautics 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.

- Research Assistant | Prof. Zhigang Deng, Department of Computer Science, UH
+ Analysis and Modeling of Human Behaviors in Multiparty 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

- **Research Assistant | Prof. Dr. Gehad Ismail, Department of Computer Science, CIC**
+ SW Design, QuantaMedics (Medical-AI Research) | Graduation Project: -
  - 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.

Mar 2023 – Nov 2024

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

EXTRACURRICULARS

+ 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)

Interests

- Arduino-Based C++ Vehicle Dashboard Telemetry | 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

- Aerodynamic Design | EVER IV
+ 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.