George I. Habashi

|  |  |
| --- | --- |
| PROFESSIONAL SUMMARY Passionate about bridging software engineering with real-world hardware applications such as telemetry and performance diagnostics. Determent 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 Projects - **Egyptian Space Agency (EgSA) | 8-week on-site SW intern:**   * 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.*  - **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.*  - **Graduation Project | Medical AI Research (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, Cairo, Egypt*.   **- Full-Stack Web Development | Archangel Raphael Coptic Orthodox Church:**   * Developed and managing 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.   Live Portal: http://aar-sds.atwebpages.com  **-**  **Undergraduate 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.    CURRENT WORK EXPERIENCECashier | Whataburger | Houston, TX | Mar 2023 – Nov 2024Balanced full-time overnight shifts with a full-time academic schedule.Demonstrated teamwork, adaptability, and reliability under fast-paced conditions. | 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 church 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 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, 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. |

GeorgeIhab2@gmail.com | US Permanent Resident | [www.linkedin.com/in/george-habashi](http://www.linkedin.com/in/george-habashi) | Portfolio: georgeihab2.github.io/portfolio/