Hamzah Issa
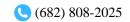
✉ hamzahissa@tamu.edu | 📞 (682) 808-2025 | 🌐 Hamzah's Website

Detail-oriented and technical-minded Electrical Engineering student at Texas A&M University seeking to leverage my knowledge and experiences while also implementing my leadership and communication skills to assist you in changing the future.

Experience

Formula Electric Society of Automotive Engineers (SAE) at Texas A&M
Summer 2022 – Present
- Administered and coordinated the electronics team in executing and implementing elementary electric circuit design in the Formula vehicle to improve performance by 10-20%.
- Communicated with the various sub-teams with engineers from over 5 majors to successfully engineer the vehicle's design and allocated the correct budget for the project.
- Researched renewable energy storage systems technology to construct a more technologically advanced and efficient form of power for the vehicle.
- Revamped and managed project management procedures to ensure the electronics sub-team's goals, requirements, schedules, deadlines, and budgets are on track.

Engineering IT Specialist
Summer 2022 – Present
- Assisted 200+ students, faculty, and staff in the engineering department at Zachary Educational Complex at Texas A&M by installing different programs, reimaging laptops, and computers, and providing technical support in classes.

Society of Hispanic Professional Engineers (SHPE)
Fall 2021 - Present
- Operated and maintained the SHPE website while on the technical division team.

Project Team Lead at Eta Kappa Nu National Honors Society (HKN-IEEE)
Spring 2020 – Summer 2022
- Spearheaded a team of engineers from 4 majors that worked on various projects throughout the year by utilizing both hardware and software components to achieve our goals.

International Internship
Summer 2020 – Summer 2021
- Interpreted AutoCAD blueprints for the circuitry of internet servers, HVAC systems, distribution boards, low voltage boards, fire alarms, and smoke detector systems in 13 public schools across the nation.
- Corresponded with the Project Manager and numerous senior engineers from different engineering backgrounds on the daily project goals and assignments through Microsoft Teams, Zoom, and in-person meetings.
- Programmed Honeywell fire alarm and smoke detector devices.
- Supervised construction workers connecting the distribution board circuitry and laying the wire trunking in each building.

Engineering Peer Teacher
Fall 2020 – Spring 2021
- Collaborated with 2 professors to ensure students in the class were well prepared to implement and utilize Python in their engineering careers.
- Administered midterms and final examinations throughout the semester.
- Responsible for grading and providing feedback on over 70 programming assignments per week.

Education

Texas A&M University | College Station, TX — December 2023
Bachelor of Science in Electrical Engineering, Minor in Mathematics — GPA: 3.51
The University of Texas at Arlington | Arlington, TX — May 2019
Bachelor of Science in Mechanical Engineering — GPA: 4.0

Skills
- SolidWorks, C++, Python, MATLAB, HTML, CSS, LT Spice.
- English: Native or Bilingual Proficiency.
- Arabic: Native or Bilingual Proficiency.

Personal Projects
- Engineered and fabricated a pressure and water-resistive stopwatch for scuba divers to use when under high water pressure using SolidWorks and 3D printers.
- Programmed and developed a mobile-friendly personal website where I discuss myself, projects, and experiences using self-taught skills in HTML, CSS, and Git.

Awards
- Achieved the Dean's Excellence Award – Honorable mention.
- Succeeded at attaining Honors student achievement at The University of Texas at Arlington and Texas A&M University.