

Zachariah J. Assad

x4ch4ri4h@gmail.com ❖ (832) 819-7075 ❖ Houston, Texas

WORK EXPERIENCE/VOLUNTEERING

Undergraduate Teaching Assistant (UGTA)

Aug. 2024

- Course: (CSCE 120) Introduction to C++ *College Station, TX*
- I work weekly during the school year providing instructional support to students, leading lab sessions, grading exams, and contributing to course management tasks.

Student Engineering Council (SEC) Directed Internship with Texas Instruments

May. 2023 – Aug. 2023

Houston, TX

- Worked with a team of six and a TI mentor to research, analyze, and present the impact of automotive battery transition from 12-V to 48-V for electric vehicles.
- Developed teamwork, presentation/speaking, and self-discipline skills within a professional setting.

Signal Energy Alliance (SEA)

2018-2022

Technology Intern

Houston, TX

- Assisted in quantitative data analysis and prediction using Excel and MATLAB.

Volunteering (ongoing)

- Food for Thought, Houston Food Bank, Faith Community

EDUCATION

Texas A&M University

2022-2025

BS, Computer Engineering / Minor in Mathematics

College Station, TX

- 4.0 GPA, Dean's Honor Award
- Relevant courses: Intro to Computer Systems, Electric Circuit Theory, Computer Architecture and Design, Topics in Applied Math, Intro to Digital System Design, Discrete Structures for Computing, Data Structures and Algorithms, Electricity and Magnetism Engineering and Science, Differential Equations, Intro to Program Design and Concepts
- Aggie Robotics, Aggie Coding Club, Arab Student Association, Muslim Student Association, TAMUHack
- Projects
 - Single Cycle Processor Implementation in Verilog
 - Designed, simulated, and tested a basic single-cycle processor design utilizing Verilog through a Vivado environment. Gained hands-on experience with digital design principles, Verilog programming, and FPGA-based development tools.
 - Basic Smart Home System
 - Worked with a team of 4 to design and present a Chat-GPT integrated smart home assistant and security system. Utilized and gained experience with Arduinos, breadboarding, Python, CAD, and GitHub.

SKILLS

- Programming(C++, Python, Java, ARMv8, JavaScript); HTML; CSS; Visual Studio; Linux; Verilog; Xilinx Vivado; GDB; GitHub; Excel; LaTeX; communication; teamwork; time management; flexibility; Arabic