

MARWAN ABDELWAHAB

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EDUCATION

University of South Florida – Tampa, FL

Bachelor of Science in Computer Engineering

Graduation: December 2025

GPA: 4.0/4.0, Dean's List x4

- **Relevant Coursework:** CMOS VLSI Design, Data Structures and Algorithms, Intro to Robotics, Intro to AI, Computer Architecture, Computer Logic and design, Discrete Structures, Program Design, Linear Systems

EXPERIENCE

Summer Conference Specialist & Mail/Desk Clerk

USF Housing & Residential Education

May 2024 – Present

Tampa, FL

- Supported front desk operations and provided customer service to over **5,000** conference and camp attendees across **15+** groups, achieving a **98%** customer satisfaction rate from post-event surveys
- Oversaw key tagging, check-ins, and check-outs during the summer for up to **300** attendees daily, minimizing wait times and reducing check-in errors by **10%** compared to previous seasons
- Processing mail and packages for over **2,000** students weekly, managing **500+** packages and inquiries daily, achieving a **20%** reduction in mail handling errors and a **95%** satisfaction rate

Mobile Application Development Intern

Hassan Allam Technologies

July 2023 – August 2023

Cairo, Egypt

- Spearheaded the development of a mobile portal prototype as part of a **4-member** team, utilizing **Dart** and **Flutter** to create a calendar module for over **3,000** employees, streamlining task management and communication across sectors
- Drove research and proposed **5+ UI/UX** improvements for the calendar module, directly shaping the final design and significantly boosting usability and user engagement
- Collaborated in **3** weekly team meetings to address deployment issues and identify bugs, resulting in a more stable and user-friendly app that enhanced efficiency and minimized downtime

LEADERSHIP

Electronics & CS Team Lead | *Society of Aeronautics and Rocketry at USF*

August 2024 – Present

- Leading a team of 10 in developing control and data acquisition systems for a liquid rocket propulsion project, incorporating custom **PCB design** and circuit assembly, with **ESP32 microcontrollers** enabling control over sensor data collection and processing
- Designed a feedback control system to regulate thrust and maintain stability during testing, resulting in a **20%** increase in response accuracy and reduced projected system latency by **15%**
- Collaborated with the Aerostructures and Test Stand Structures teams to integrate electronics and software, resulting in a synchronized test platform that operated reliably for over **90%** of the intended runtime during static fire tests

Treasurer | *Egyptian Student Organization at USF*

September 2023 – Present

- Supervising the organization's budget and financials by implementing a new budgeting strategy that involved tracking expenses and university funding and accomplishing an increase of **50%** in funding for the 2024-2025 academic year
- Co-ordinating expenses among E-board members by planning more fundraising events and gaining **30+** new club members

PROJECTS

Personalized AI Study Companion | *Python, Flask, PostgreSQL, NLP, Streamlit*

September 2024 – Present

- Developed an AI-powered study tool with **NLP**-based content analysis and personalized recommendations, using **Python**, **Flask**, and **Streamlit** achieving a projected **25%** improvement in study efficiency based on initial tests
- Implemented spaced repetition algorithms to optimize studying, showing a potential **30%** improvement in content recall
- Built interactive visualizations to track progress, with insights to address knowledge gaps, aiming for a **20%** increase in content retention through guided study plans

Blog Website | *REST APIs, Flask, Python, SQLite, Git, HTML, CSS*

May 2024 – June 2024

- Created a full-stack blog using Flask, integrating **Python** with **JavaScript**, **HTML**, and **CSS**, achieving a **30%** reduction in page load times during demo tests
- Developed **RESTful APIs** for secure database operations and user authentication, with encryption meeting basic security standards
- Managed version control with **Git**, coordinating deployment to streamline updates and reduce bugs by **15%** during testing

TECHNICAL SKILLS

Languages: Python, C/C++, HTML/CSS, SQL, JavaScript, Verilog HDL

Frameworks/Technologies: Flask, Flutter, PostgreSQL, Streamlit, Linux, PCB Design, Node.js, Embedded Systems, Machine Learning

Developer Tools: Git, Heroku, Cadence Virtuoso, KiCad, EasyEDA, VS Code, PyCharm, Arduino IDE