Dana Bteddiny

Computer and Communications Engineer

Computer and Communications Engineering graduate with a passion for bringing ideas to life through embedded systems, IoT, and smart technologies. Skilled at bridging hardware and software to build practical, future-ready solutions, with a strong eagerness to learn, adapt, and create impact.

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EDUCATION

BS in Computer and Communications Engineering
American University of Science and Technology
10/2021 - 07/2025

Lebanese Baccalaureate in Life Science
Batloun Official High School
2018 - 2021

WORK EXPERIENCE

Coding and Robotics Instructor
American University of Science and Technology
01/2025 - 04/2025
Achievements/Tasks

- Taught programming concepts and robotics fundamentals to high-school students
- Used platforms like Jupyter and DOBOTLAB
- Received positive feedback from students for clear explanation and interactive teaching methods

Lab Assistant
American University of Science and Technology
10/2023 - 02/2024
Achievements/Tasks

- Provided academic support to students, contributing to the department's successful Evalag and ABET accreditations.
- Assisted students during lab hours, offering technical support and troubleshooting programming issues.
- Received positive feedback from students and supervisors for my effective communication and problem-solving skills.

MORE ABOUT ME

To learn more about me, explore my projects, and see my accomplishments, please visit my portfolio:
danabteddiny.github.io

SKILLS

Python | C Programming | C++ | MATLAB | Linux | Raspberry Pi (GPIO, I2C, UART, SPI) | Arduino | Microprocessors | Autodesk Inventor | Circuit Design | PCB Design | OpenCV | HTML | Cisco Packet Tracer | Proteus

PERSONAL PROJECTS

Brain-Controlled Smart Home Automation System (2024 - Present)

- Developed a functional prototype that captures brainwave signals to control home appliances.

Face Recognition Access System (2023 - 2024)

- Developed a Python based face recognition access system using OpenCV that grants users access to their saved credentials.

Digital Hourglass (2023 - 2024)

- Built a digital hourglass with LEDs and Arduino Nano, using timers and digital I/O. Focused on real-time response and basic embedded design.

CERTIFICATES & AWARDS

LIRA Program Awardee for an EU-funded Innovation Project (04/2025 - Present)
Brain-controlled smart home system

3rd Place - Mental Health Hackathon (2025)
Innovative AI system for Mental Health

1st Place Microprocessors Lab Expo (2023 - 2024)
Digital Hourglass

CCNA1 v7 (2023 - 2024)
Introduction to networks

CCNA v7 (2023 - 2024)
Switching, Routing, and Wireless Essentials

LANGUAGES

Arabic
Native or Bilingual Proficiency

English
Native or Bilingual Proficiency