

DANA BTEDDINY

JUNIOR EMBEDDED SYSTEMS ENGINEER | CCE GRADUATE

Recent Computer and Communications Engineering graduate with a strong foundation in embedded systems, microcontroller programming, and smart technology design. I'm passionate about building functional systems that combine software and hardware, and eager to contribute to innovative teams in the fields of firmware development, IoT, or assistive technology.

CONTACT

PHONE:
+961 76 189 254

EMAIL:
dana.bteddiny28@gmail.com

LANGUAGES:

Arabic (native) and English (fluent)

REFERENCE:

Mohammad Rahal, Ph.D. –
Chairperson of CCE at AUST –
mrahal@aust.edu.lb

Mohammad Dika, MS – Faculty
Lecturer at AUST – mdika@aust.edu.lb

SKILLS:

Technical Skills:

- **Programming and Tools:**
Python, C, C++, MATLAB, Linux
- **Embedded Systems & Hardware:**
Raspberry Pi (GPIO, UART, I2C, SPI),
Arduino, Circuit Design, PCB
Design, CAD, OpenCV
- **Networking & Security:**
Cisco Packet Tracer, Network
design, CCNA1/2
- **Other Tools:**
Microsoft Office Suite (Word,
Excel, PowerPoint)

Soft Skills:

- Multitasking
- Communication skills
- Organizational skills
- Time management
- Problem solving

EDUCATION

American University of Science and Technology, Achrafieh, Lebanon

Fall 2020, graduated in year 2025 with a BS degree in Computer and Communications Engineering.

PROJECTS

- **Braininterpreter – BCI-Based Smart Home System**
Developed a smart home automation system using Brain-Computer Interface technology. Captured brainwave signals to control home appliances by Utilizing Raspberry Pi and Python to interface with hardware and deliver real-time control.
- **LED Hourglass**
Built a digital hourglass with LEDs and Arduino Nano, using timers and digital I/O. Focused on real-time response and basic embedded design.
- **Face Recognition Access System**
Developed a Python based face recognition access system using OpenCV that grants users access to their saved credentials.

WORK EXPERIENCE

Robotics and Coding Course – AUST, Instructor

January 2025– April 2025

- Delivered engaging lessons on robotics and coding to school students.
- Taught programming concepts and robotics fundamentals using platforms such as Jupyter and DOBOTLAB.
- Received positive feedback from students for clear explanations and interactive teaching methods.

Department of Computer and Communications Engineering - AUST, Departmental and lab assistant

October 2023– February 2024

- 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.

CERTIFICATIONS

- Cisco Certified Network Associate (CCNA 1 & 2) – Completed with Excellence (June 2024)
- First place, Microprocessors Lab Exposition (Feb 2024)
- First place, Computer Networks Lab Exposition (June 2024)

MORE ABOUT ME:

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