

ALI NASER

Communications and Electronics Engineering Student

CONTACT

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EDUCATION

Beirut Arab University

B.E. in Communications and Electronics Engineering
2024 - Present

Amjad High School

Baccalaureate in General Sciences
SAT: 1370/1600 | Math: 770/800
2023 - 2024

TECHNICAL SKILLS

- Programming: Python, C, C++, Assembly, Arduino programming, MicroPython
- Embedded: Arduino, Raspberry Pi Pico W, ESP32, ESP32-CAM, PIC16F877A
- Electronics: sensors, relays, servo motors, LCD/OLED displays, buzzers, analog/digital circuits
- Communication/IoT: UART, ESP-NOW, Wi-Fi monitoring, Telegram alerts
- Tools: Arduino IDE, Thonny, Proteus, Microsoft Word, PowerPoint

TRAINING

- Getting into Raspberry Pi - University Antonine, 2025
- Cybersecurity Day 2025 - Semicolon, Lebanese University
- Cloud Powered Smart IoT Surveillance - Rafik Hariiri University
- AI in Healthcare Seminar - Beirut Arab University
- Robotics and Coding - AUST, 2023

LANGUAGES

- Arabic: Native
- English: Fluent

PROFILE

Communications and Electronics Engineering student at Beirut Arab University with hands-on experience in embedded systems, electronics, sensors, robotics, and IoT-based projects. Interested in telecommunications, network infrastructure, mobile networks, smart connected systems, and practical engineering design.

PROJECTS

Smart Home Automation and Security System

PIC16F877A, Raspberry Pi Pico W, sensors, servos, UART, Wi-Fi dashboard

- Building a smart home prototype combining local embedded control with IoT-based remote monitoring; gas detection, fire/security alerts, keypad access, gate servo control, fan relay control, buzzer alerts, LCD display, and IR-based gate logic while using Raspberry Pi Pico W for UART communication, Wi-Fi dashboard features, Telegram alerts, and remote status monitoring.

Safety Monitoring System for Children with Autism

IEEE CASS Student Design Competition | ESP32, ESP32-CAM, ESP-NOW, sensors

- Designing a non-intrusive safety monitoring system to detect environmental triggers and child-specific distress behaviors in real time.
- Integrated MAX9814 microphone, LDR module, IR motion sensor, ESP32-CAM, OLED display, RGB LED, buzzer, and acknowledgement button.
- Used ESP-NOW wireless communication between a child-side monitoring device and a caregiver receiver unit.

Arduino Robotic Car

AUST Third Engineering Summer Camp "Formula One" Robotics

- Building and testing an Arduino-based robotic car during a robotics competition environment where we worked on wiring, motor control, coding, debugging, and team-based testing to improve movement response.

Car Signal and High/Low Light Circuit

Electronics project - no microcontroller

- Designing a car lighting control circuit using only electronic components and implementing turn signal behavior and high/low light switching while applying circuit analysis and practical wiring skills.

LEADERSHIP & VOLUNTEERING

IEEE Student Branch Treasurer

Beirut Arab University

- Supported student branch activities, coordination, and event organization.

Organizer - Lebanese National Student Competition

Beirut Arab University

- Assisted in organizing competition activities and supporting participating students.

ACTIVITIES

University futsal team | University football team