

MOHAMMAD SHALABI

Communication and
Electronics Engineering

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PROFESSIONAL SUMMARY

Highly motivated and passionate Communication and Electronics Engineering student at Beirut Arab University, graduating June 2026. Throughout my five-year degree, I have successfully balanced academic rigor with consistent professional work, demonstrating exceptional responsibility and a relentless work ethic. I am a proactive learner dedicated to continuous self-improvement and delivering high-impact results through a disciplined engineering mindset.



EDUCATION

Beirut Arab University (BAU) | Sept 2021 -
Expected June 2026
Bachelor of Engineering in Communication and
Electronics

- Relevant Coursework: Antenna Theory, Wireless Communications, Microwave Engineering

Le Lycée National | KGs - High School | 2021
Lebanese Baccalaureate in Life Sciences



TECHNICAL SKILLS

- Python (YOLOv12, OpenCV), C Language, Google Colab
- MATLAB, LabVIEW, VNA Testing, CNC
- RF/Telecom: Atoll, Radio Planner, HFSS, ADS
- Circuits: PSIM, NI Multisim, Cisco Packet Tracer



LANGUAGE

- Arabic: Native
- English: Professional Working Proficiency



PROFESSIONAL & TECHNICAL BACKGROUND

CAPSTONE PROJECT 2025 - Present

AI Lifeguard: Real-Time Spatial Drowning Detection System

- Model Optimization: Benchmarked YOLOv8-v12 for real-time mAP vs. FPS
- Spatial Partitioning: Engineered Python "Smart Zones" for location-specific monitoring
- Behavioral Tracking: Developed OpenCV pipeline for 10-second distress detection
- Audio Integration: Integrated voice-alarm system for immediate zone-based intervention
- Automated Alerts: Synchronized SMTP email notifications with real-time snapshots

PROFESSIONAL EXPERIENCE Aug 2025 - Sept 2025

Telecommunications Engineering Intern Ogero

- OSP & Copper Infrastructure: Installed and maintained cabling
- FTTX & GPON Architecture: Studied fiber network transitions
- ADSL/VDSL Data Testing: Troubleshot central office connectivity

TECHNICAL ENGINEERING PROJECTS

- 4G/5G Wireless Network Planning
- Cellular Network Performance Analysis
- 2.4 GHz Microstrip Patch Antenna
- Library Database Management System

Work Experience

- Private Tutor (Math & Physics) 2023 - Present
- Waiter | Various Locations | 2022-2025