

# Mohammd Benni

Aleppo, Syria | +963 998 214 250 | mohammdbenni4@gmail.com | linkedin.com/in/mohammd-benni

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## SUMMARY

Motivated and detail-oriented Electrical Engineering student with a strong foundation in circuit design, power systems, and renewable energy technologies. Additionally, a Backend Developer with a year of hands-on experience in .NET Core. Proven ability to design, develop, and maintain efficient and scalable backend systems. Competed in the ICPC Syrian Collegiate Programming Contest, showcasing strong problem-solving skills and a passion for algorithmic challenges. Adept at collaborating with cross-functional teams to deliver high-quality software solutions. Committed to continuous learning and staying updated with the latest industry trends and technologies.

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## SKILLS AND STRENGTHS

- **C#** : Expert-level proficiency in C#, with extensive experience in developing robust applications and services.
  - **C++** : Advanced knowledge and experience in C++, capable of writing high-performance and efficient code.
  - **.NET Core** : In-depth expertise in .NET Core, skilled in building scalable and maintainable backend systems.
  - **Protocols & Languages**: Proficient in Python (for ROS 2 scripting) and Serial Communication (RS485, hardware timing).
  - **Domain-Driven Design (DDD)**: Solid understanding and practical application of DDD principles in software development.
  - **CQRS**: Proficient in implementing Command Query Responsibility Segregation (CQRS) for scalable and maintainable applications.
  - **Problem Solving** : Exceptional problem-solving abilities, honed through competitive programming and real-world development challenges.
  - **Robotics Frameworks**: Advanced proficiency in ROS 2 for autonomous navigation and sensor integration.
  - **Hardware & Embedded Systems**: Extensive experience with Orange Pi, Raspberry Pi, NVIDIA GPUs, ESP32, and RPLidar C1.
  - **Computer Vision & Sensors**: Applied knowledge of YOLO for object detection, Battery Management Systems (BMS), and ultrasonic and many other sensors.
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## PROFESSIONAL EXPERIENCE

### Backend Developer

Elkood Company, Aleppo, Syria  
June 2023 – August 2024

- Developed and maintained backend systems using .NET Core, ensuring high performance and scalability.
- Collaborated with front-end developers to integrate user-facing elements with server-side logic.
- Optimized existing codebase, improving system efficiency and reducing response times.
- Implemented and managed APIs, enhancing system interoperability and data exchange.

- Participated in code reviews, providing constructive feedback and ensuring adherence to best practices.

## Robotics Engineer

SWB Company, Aleppo, Syria

January 2026 - Present

- Developed and engineered autonomous robots, including the Manara robot, for professional deployment utilizing the ROS 2 Jazzy framework.
- Programmed a custom C++ and Python-based bridge to read and process data from Battery Management Systems (BMS) and ultrasonic and many other sensors via ROS 2.
- Implemented and troubleshooted serial communication protocols (RS485) and hardware timing for accurate battery information formatting and retrieval.
- Integrated and optimized embedded systems and high-performance computing hardware, Orange Pi (5 Max), Raspberry Pi, and RPLidar.
- Contributed to the manufacturing and core programming of the Manara Robot, a high-profile autonomous project deployed in Mecca (recently covered by [Interesting Engineering](#) , [Saudi Press Agency \(SPA\)](#) , [Robotics And Automation](#)).

## Problem Solving Coach

Aleppo University, Aleppo, Syria

January 2022 - Present - Seasonal

- **Developed and delivered** problem-solving workshops and training sessions for students and faculty, enhancing critical thinking and analytical skills.
  - **Mentored** students on structured problem-solving techniques, guiding them through complex academic and practical challenges.
  - **Facilitated** one-on-one coaching sessions, helping students overcome academic obstacles and achieve their academic goals.
  - **Designed** assessment tools to measure progress and effectiveness of problem-solving skills among participants.
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## EDUCATION

### Bachelor of Science in Electrical Engineering

Aleppo University, Aleppo, Syria

2019 – Present