Tomer Ben Ami

ELECTRICAL ENGINEER – EMBEDDED ENGINEER

Aspiring Embedded Systems Engineer with a strong foundation in C, C++, and microcontroller programming. Experienced in developing embedded applications, focusing on efficiency and performance. Debugging low-level software. Passionate about problem-solving and eager to contribute to innovative engineering projects.

CONTACT

- tomerbenami3@gmail.com
- 054-8170128
- Modi'in
- LinkedIn
- GitHub

EDUCATION

Afeka College of Engineering. Tel-Aviv – Graduated. Specialized in Communication & Computers.

COMMUNICATION SKILLS

- Knowledge in protocols – I2C, RS485, UART
- Reviewing communication equipment specifications and datasheets
- Knowledge of cellular communication systems such as 4G LTE and 5G.

LABORATORY EQUIPMENT EXPERTISE

- Utilizing laboratory equipment such as oscilloscopes, spectrum analyzers, network analyzers, signal generators, and more.

PROGRAMMING SKILLS

- C, C++, C#, JavaScript & Nodejs.
- Databases: SQL Server, MongoDB, MySQL.

TECHNICAL TOOLS

- Simulink, OrCAD PSpice, Quartus, Modelsim, Visual Studio, VS Code.

SKILLS

- Strong foundation in C and C++, with experience in structured and object-oriented programming.
- Writing readable, maintainable, and well-organized code.
- Experience with multithreaded programming and concurrency.
- Knowledge of embedded systems development, including firmware design and microcontroller programming.
- Familiar with software design principles and efficient coding practices.
- **Lab Equipment Usage:** Frequently worked with oscilloscopes and network analyzers, a solid understanding of their operation and applications in testing and analysis.

Final Project: Developed a smart insole with pressure sensors designed to assist in correcting the gait of injured individuals.

WORK EXPERIENCE

October 2024 – Present: Enrolled a course foucusing Embedded C and C++, microcontrollers, real-time systems, HW/SW programming.
Full-stack Developer at Optimove (part time).
January 2024 – October 2024

developed internal tools using .NET (C#) and Angular. expertise in debugging, database management, implementing and integrating APIs. enhancing both server and client-side functionalities.

SOCIAL VOLUNTEERING

The "Breaking the Glass Ceiling" program is designed to help integrate female high school students into technological professions.

IDF Servings 2013 – 2016 Full military service in the Israeli Naval Forces.