

## 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.

# 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.

## 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 focusing 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.

## Additional Projects:

My role focuses exclusively on the system's functionality, encompassing code implementation and its integration with the application. I am accountable for overseeing all electrical aspects and facilitating seamless communication among various components. However, my responsibilities do not extend to constructing the entire system.

### 1. A Louver – Exit to the garden/balcony -

moves horizontally and rotates it until it is fully closed. Remote control.  
Developed using C on the ESP32 microcontroller.



### 2. A smart fence for the pool -

embedded in the ground, moving vertically, controlled by the application.  
Developed using Python and C on the ESP32 microcontroller

