


Tzahi Tahan

Electrical Engineer

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 Tel-Aviv

 [tzahi-tahan](https://www.linkedin.com/in/tzahi-tahan)

 [Github](https://github.com/tzahi-tahan)

Skills

FDATool

Virtuoso

Simulink

Multisim

Git

Python

Matlab

C

C++

ML

AI

Languages

Hebrew

Native language

English

High level

Summary

Motivated and detail-oriented Electrical with strong background in signal processing.

Seeking a full-time Software Engineering position.

Education

2021-present:Electrical Engineering Student at Bar-Ilan University. Specializing in Signal Processing and Opto-Electronics.

•**GPA:80**

•**Exams: Optical Communications-95 Data Structures and Algorithms-96.**

•**relevant courses:**

Digital Signal Processing I

Digital Signal Processing II

Statistical Analysis of Data

Digital Signal Processing

Introduction to Electrical Engineering

Skills and projects

- Designed and simulated signal processing systems, implementing filters and noise reduction techniques using MATLAB **Simulink** and **FDATool**.
- Hands-on projects in digital and statistical signal processing, including adaptive filtering (LMS, RLS) and digital/analog filter design using MATLAB.
- Conducted hands-on projects in opto-electronic devices and systems, including MATLAB-based optical fiber simulations, lens design, and polarizer design.
- Designed and implemented digital and analog circuits, as well as FPGA-based systems, using schematics, layout, and verification tools.
- Developed and simulated hardware architectures using Simulink and Virtuoso.
- Implemented AI search and planning techniques, including heuristic methods and reinforcement learning.