Stav Ferrera

CONTACT

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SUMMARY

Electrical Engineer with 3 years experience in research, product development, and project management. Proficient in designing innovative electrical components, testing and optimizing advanced electrical systems, and adept at identifying and resolving recurring electrical system issues, while also offering strategic recommendations for improvement.

EDUCATION

The Hebrew University of Jerusalem
2018 - 2023

BSc. Computer Engineering – Specialize in Appl. Physics

- **GPA 81**
- **Awarded 'Best Final Project' distinction**

Aleh High School for Arts and Sciences
2010-2013

EXPERIENCE

Fize Medical

R&D Engineer / 2021 - Present

- Design and integrate new sensors, testing for accuracy, precision, and error across various environmental conditions.
- Optimized code for performance and efficiency in STM32-based device.
- Designed, implemented, and tested algorithms for a variety of signal processing and conditioning tasks in a real-time system.
- modified existing software to correct errors, upgrade interfaces, and improve performance.
- Researched, designed, and implemented scalable applications for information identification, extraction, analysis, retrieval, and indexing.

The Hebrew University of Jerusalem

Research Assistant / 2019 - 2021

- Conducts and examines the electrical nature and properties of chiral molecules under electrolysis.
- Responsible for designing, setting up, and analyzing the data for these experiments.

Published article: Nuclear spin effects in biological processes. Proc Natl Acad Sci U S A.

IDF

UAV pilot / 2013 - 2016

- soldier and commander in Skyrider (רוכב שמיים).

SKILLS

- Programming: Python, C, C++, MATLAB, Verilog.
- Communication Protocols: I2C, UART, SPI, TCP/IP
- Experience with ARM and Xtensa MCUs
- Embedded operating systems (Linux, FreeRTOS)
- Circuit and schematic design: Altium, KiCad.
- Experience in Signal Processing Algorithms