STAV FERRERA

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SUMMARY

Software Engineer with 3 years of experience adept at crafting and optimizing algorithms tailored to real-world data. With attention for detail and a passion for innovation, I have honed my skills in designing, testing, and refining algorithms using insights gathered directly from the field. My expertise lies in developing scalable and efficient code, while consistently improving and fine-tuning algorithms to meet evolving challenges.

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work experience

R&D Engineer, Fize Medical   2021 - Present

- Design and optimize software for performance and efficiency in STM32-based device.
- Design algorithms for a variety of signal processing and conditioning tasks in real-time system.
- Lead system changes from ideation through execution, collaborating across teams from various disciplines.

Research Assistant, The Hebrew University of Jerusalem   2019 - 2021

- Conducted, examined, and analyzed a project focused on quantum nano-structures and the electrical nature and properties of chiral molecules.

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

UAV pilot, IDF   2013 - 2016

- soldier and commander in Skyrider (רוכב שמיים).

EDUCATION

Bachelor of Science in Electrical & Computer Engineering   2018 - 2023
- Specialization in Applied Physics.
- Awarded 'Exceptional Final Project' distinction

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additional information

- Programming Skills: Python, C, C++, MATLAB, Verilog.
- Operating Systems (Linux, FreeRTOS).
- Communication Protocols: I2C, UART, SPI.
- Experience in Signal Processing Algorithms