Tal Haim

HARDWARE ENGINEER

A dedicated engineer, experienced in R&D of algorithms for optical phenomena in Python and PCB. Eager to apply computing and software engineering position that includes development, validation and verification for a product. Special interest in signal processing with deep learning in the field of music and video.

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Petah Tikva

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github.com/talhaim11?tab=projects

WORK EXPERIENCE

R&D engineer
newphotonics

02/2023 - Present

An innovative start-up for data center power efficiency with breakthrough optical ideas

Achievements/Tasks

- Research and maintaining test documentation of an optical phenomena
- Development of autonomous algorithms - python code for phenomenon automation
- Lab testing equipment + optics equipment - Scope, Signal Generators, Spectrum Analyzers
- Product validation, debugging and test automation
- Real-time embedded with stm32-nucleo microprocessor and also arduino-nano 33
- Ubuntu, Jira, Python

Missile interception systems technician
Israel Navy

11/2014 - 11/2017

3 years RF technician service for 2 missile interception systems as a combatant on the missile ships of the Israeli Navy

Achievements/Tasks

- Operated and fixed naval counter-missile systems under pressure
- Work with system documentation and schemes
- Used Scope, Signal Generators, Spectrum Analyzers

EDUCATION

bachelor's degree in electrical engineering
HIT - Holon Institute of Technology

10/2019 - 08/2023 *GPA - 95*

Advanced courses

- Deep learning
- RF design
- Advanced DSP
- Biosensor engineering for brain research

Practical Engineer
AAC - Amit Amal College

10/2012 - 10/2014 *GPA - 91*

SKILLS

- ✓ Team player
- ✓ Self motivated
- ✓ Autodidact
- ✓ Work under pressure
- ✓ Python
- ✓ Development & Simulations
- ✓ MS Office - Exel, PPT, Word
- ✓ AI - Gamma, GPT, Runway

PERSONAL PROJECTS

Micro-comb laser project (10/2022 - 08/2023)

- Research on a physical optical phenomenon that creates several wavelengths from a single laser wavelength. Revolutionizing connectivity and communication in the data centers. Simulations, experiments and analyzing findings.

Deep Generative Models (GAN) (10/2022 - 12/2022)

- Project - Neural networks trained to approximate and to create new artificial based on provided underlying distribution.

Pneumonia detector (05/2022 - 07/2022)

- Project - algorithm to detect pneumonia in X-ray images.

LANGUAGES

Hebrew - mother tongue

English - fluent

HOBBIES & INTERESTS

Music production | Play chess | Acrobatics | Optical and physics engineering