# **NETANEL MAZUZ**

## Hardware & Software Engineer | AI Developer

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#### SUMMARY

Looking for a challenging and interesting **Full-Time** position in Al **Development.** 

#### **EXPERIENCE**

#### **Project Advisor**

#### RoboPhysics

苗 2023 - Present

Technion, Israel

Mentoring students in **robotics** and **physics** projects, ensuring their eligibility for honors graduation, academic candidacy, and possible selection for elite IDF units.

- Mentored 10 teams of 3-4 members, 70% of which received awards for their exemplary performance, originality, perseverance, and academic excellence.
- I promote independent work, collaboration & interdisciplinary critical thinking.

#### Cad Engineer

#### Nvidia

**=** 2022 - 2023

Yokneam, Israel

Coded **CAD Python** tools for **DFT** teams, incorporated new checkers for Nvidia's netlists, covering all algorithm dev. stages from research and implementation to testing, debugging, and deployment, using **CI/CD** and **Agile** methodologies.

· Conducted design reviews, produced documentation and status reports, and provided technical support for the software and tools I developed.

## **Automation Engineer**

#### Inuitive

**=** 2020 - 2022

Ra'anana, Israel

Programmed object-oriented **C++** and **Python** automated tests for a **computer vision** chip. I integrated software for learning algorithms embedded in the chip.

- I conducted unit, end-to-end, performance, and regression testing to ensure robust quality assurance and reliability throughout the development lifecycle
- · Cut testing runtime by 30% using design patterns in automation pipelines

## **EDUCATION**

# AI Development Training

# **Technion University**

**#** 2024

- Hands-on experience with leading deep learning frameworks, including the design, training, validation, and optimization techniques for neural networks.
- · Covering math & stats foundations, learning architectures and building blocks.
- · Built 2 large **AI projects** with 2 peers, prioritizing use-case-oriented thinking.

## Full-Stack Development Bootcamp

# Appleseeds Academy

**=** 2020

- · Created dynamic, responsive websites, UIs, and robust, scalable applications.
- · Applied full-stack tools, frameworks, databases, and industry best practices.

# B.Sc. in Electrical & Computer Engineering

# Ben-Gurion University

**=** 2015 - 2020

- · Majored in VLSI, data structures & algorithms, and signal processing.
- · Final Project: Arduino-Based IoT Water Nitrate Pollution Monitoring System.
- · Notable Project: a blind source separation Matlab project, denoising signals.
- · Coded over 50 projects in C/C++ in Visual Studio. <u>D&D OOP project</u> (Grade: 97)

## **EXTRACURRICULAR ACTIVITIES**

#### **BGU Racing Team**

#### Formula Student

**=** 2016 - 2017

Participated in developing an electric racing car, designed and integrated the BMS according to specifications under challenging power consumption, heat dissipation, space, cost, and performance constraints.

#### MILITARY SERVICE

LANGUAGES

#### Army police

Hebrew | English

Full service as a squad commander.

#### **PROJECTS**

#### AI-Powered Speech Emotion Recognition

Designed an **emotion classification** model using CNN.

 Achieving 99% accuracy on Ravdess, Crema, Savee, and Tess datasets using GPU-accelerated libraries.

#### Deep Fake Detection System in Video

Developed and implemented a <u>deep fake detection</u> Al system to identify and mitigate synthetic media risks.

• Delivered an innovative solution for preprocessing large datasets, cutting training time by 24x.

## Hackathon - Accessibility Project

Built <u>server-side</u> and <u>client-side</u> for a children's stories translation website. Led a 5 developers team, planned, organized, and enforced tight schedule (24 hours).

### **TOOLS & TECHNOLOGIES**



#### Software & Hardware Languages

Python | C | C# | C++ | JS | HTML | CSS VHDL | Verilog | Spice | TCL | Shell



#### Machine & Deep Learning

PyTorch | CUDA | Keras | TensorFlow | DGL Scikit-learn | XGBoost |



### IDE's & Frameworks

VSCode | PyCharm | Jupyter | Visual Studio Matlab | React | Angular | Express.js



### DevOps and Version Control System

Git | SVN | Perforce | Jenkins | Docker | Jira



#### **Operating Systems**

Windows | Linux | Unix | Android



# Communication Interfaces

UART | PCIe | I2C | SPI | RESTful API

## **CERTIFICATIONS**

#### LinkedIn Training certificates

SED | AWK | RegEx | Pandas (+Advanced) | Seaborn NumPy | SciPy | Matplotlib | Pytest

#### **VOLUNTEERING**

#### Coordinator

## Tamar Regional Council at 'Dead Sea' hotels

**⇔** 2024

I assisted evacuees in coordinating with government bodies, organized activities, provided updates, and aligned system resources with evacuees' needs.

# Web Developer

# Starter Digital

**=** 2016 - 2018

Developed websites promoting small businesses in Israel, endorsed by Google & Wix. <u>LinkedIn Page</u>.