

# ORI PETEL



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## EXPERIENCE

### Software & Algorithm Engineer – Mobileye

Feb 2023 – Present

Member of the AV Algo Objects Modeling group.

Our team focus on Supervision Applications running on the 360° camera setup.

I have been assigned with the following tasks:

- Improving the parking applications operate in ME setups.
- Developing new applications to alert you from different dangers on the road, based on various Neural Networks outputs.
- Object Oriented Redesign of the entire team's codebase (embedded CPP), to improve efficiency, product TTM, simplify testing, and encourage team collaboration of existing algorithms.

**CPP · Python · Bash · OOP · Scripts · Embedded · Physics · Geometry · Statistics**

### Software Engineer – Unit 8200, IDF

Oct 2021 – Nov 2022

Serving as an academic officer at the **977 sections**.

- Analyzing real-time network traffic of various protocols.
- Developing operational code using GO, C, Python languages.
- Providing ad-hoc software solutions, within short time periods.

**Cyber · Networks · Web Development · Operating Systems · Linux · Windows · Python · Go · C · CPP · Bash · HTML · CSS · JavaScript · x86 Assembly · Embedded**

### Research Assistant – School of Computer Science, Tel Aviv University

Jul 2021 - Oct 2021

Member of [Prof. Muli Safra's lab](#) (Gödel Prize)

Studying Computational Hardness of Lattices and Lattice-based Cryptography

### Algorithm Engineer – Samsung Israel R&D Center

Mar 2020 – Dec 2020

Working in the Samsung Automotive Sensors research team

- Enhancing ISP algorithms for real-time sensors.
- Optimizing sensors' calibration methods.

### Algorithm Developer – Western Digital Israel

Feb 2018 – Mar 2020

Working in the AMS (Advanced Memory Solutions) research team

I took part in the design Error Correcting Codes for Flash Memory devices.

- Developing, simulating, and optimizing LDPC codes on MATLAB.
- Implementing embedded encryption & security protocols on C language.
- Filing a patent for a new encoding method of BCH codes.

## EDUCATION

### M.Sc. Computer Science, Tel Aviv University

2022 – 2024

- Interested in Algorithms

### 8200 Elite Software Development Course, Apollo (Gama)

2021 – 2022

### B.Sc. Computer Science and Mathematics, Tel Aviv University

2016 – 2021

### GPA 96

Started at **15 years old** (during high school)

- **Member** of the Faculty of Computer Science's [Excellence Program](#)
- **1<sup>st</sup> place** in the [workshops](#) competition of CS School  
GitHub [link](#)
- Two Times **Dean's list**
- **Excellence** in [Odyssey](#) program

## VOLUNTEERING

Teaching Assistant – Future Scientists Center at Tel Aviv University

- Tutoring outstanding young students in the courses: Calculus, Linear Algebra, Discrete Mathematics.
- Giving private lessons & advising to students in need of assistant.

## Skills

- Team Player
- Autonomous and Fast Learner
- Innovative and Creative
- Public Speaker
- Diligent and Hard Worker

## LANGUAGES

Hebrew – Native

English – Fluent