

David Ponarovsky, M.Sc.

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🐙 github/dudupo



Employment History

- 2022 - now 📌 **T.A. Lecturer.**
Teaching the data structures course. At the Hebrew University, the course is considered the first theoretical course in computer science. Apart from teaching, the role also requires writing the exam and the exercises.
- 2020 📌 **Algorithm Developer, Mobileye.**
In the Dynamic Road Experience Management department, which develops a (part of) map of temporary changes such as construction sites, potholes, and traffic jams. The map designed to serve the autonomous vehicles.
- 2015 - 2018 📌 **Soldier, Sergeant, Platoon Sergeant.**
- 2014 - 2015 📌 **Backend Developer, AOL Israel (AOL Vidoible).**
My team at AOL Israel was responsible for embedding a purchased startup. That includes re-encoding videos of the legacy version into a new one. I was still a high student at that time, and my term there lasted till my recruiting day.

Education







- 2021 - now 📌 **M.Sc. Computer Science, Hebrew University Of Jerusalem**
In Quantum Computation. Focusing on Fault Tolerance, Good qLDPC Codes, And Error Detection.
- 2018 - 2021 📌 **B.Sc. Computer Science and Physics, Double major, Hebrew University Of Jerusalem.**
- 2016 📌 **Combat Sergeants School, Bislach-17.**
Qualified as squad commander (structure of 12 infantry soldiers). The course includes both combat and general command-management skills.
- 2013 - 2014 📌 **Computer Science Olympiad National Camp.**
Been a part of an extremely selected group trained to present Israel at the international olympiad of informatics (IOI).
- 2012 - 2014 📌 **several B.Sc. Mathematics Courses, Tel Aviv University.**
During high school, I took first-year courses in Mathematics.

Skills

- Coding 📌 *Python, C, C++, C#, Java, javascript ..., git, linux (and windows) automations, bash, vim (vimscript), gcc, cmake ..., numpy, scipy, galois, sympy, networkx, ..., \LaTeX , tikz ..., I am coding science I remember myself and highly experienced in purchasing new programming skills. The github account above testifies that.*
- Theoretical 📌 *Have the ability to both understand and implement paper, ideas, and algorithms. I am considering myself as gifted when it comes to computer science, meaning that at relative short time I understand the motivation, and point on the hardness of unfamiliar new topic.*
- Mastering. 📌 *I invested during my master a two years in the studies of LDPC quantum error correction codes including the novel constructions of the good qLDPC codes.*

Miscellaneous Experience

Awards and Achievements

- 2012 – 2014  **Mathematical and Programming Competition Participation (without winning)** *I regularly participated at the national math olympiad (Gilis), Grossman olympiad, Tournament of the Towns, Code-Guro, Skillz (8200 competition) and more, most of the times I didn't win any prize. The achievements are listed in the following bullets.*
- 2014  **Tournament of the Towns.** *Extreamly hard math contest - commendable grade.*
- 2014  **Computer Science National Olympiad.** *I got into stage C, preparation for the top 30 high school students, to the international contest. And during that stage, I was ranked among the top ten competitors.*
- 2018  **Dean Prize and Scholarship for Outstanding Student Performance.** *During my first year, I won the dean's prize award. It's also worth mentioning that in that year, I accumulated 70 right points (the standard program requires roughly 40 points), Including all the obligatory theoretical computer science courses.*
- 2022  **Master Outstanding Schoolership and Founding.** *I completely founded by the faculty.*
- 2022  **Classiq Competition.** *I participated in Classiq computation, in which the task was to write a circuit that simulates a given Hamiltonian at a certain accuracy and minimal depth.*

References

Available on Request