

Nathaniel Navarro

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science, Computer Science
Minor in Electrical and Computer Engineering
GPA: 4.13; Dean's List

Expected May 2024

Relevant Courses: Functional Programming; Discrete Structures; Data Structures and OOP; Digital Logic

EXPERIENCE

Autonomous Underwater Vehicle, Cornell University, *Software Developer* **Sep. 2021 – Present**

- Implement computer vision algorithms using OpenCV and custom frameworks ranging from simple color space thresholding to more advanced Hough transformations, SIFT detection, and Hu moments.
- Design robust mission algorithms that combine computer vision output with efficient locomotion.
- Maintain and renovate a large codebase to enable elegant implementation of mission algorithms
- Troubleshoot low-level electrical/driver issues in collaboration with the vehicle's electrical subteam.

Israel Defense Forces, Israel, *Senior Drill Instructor; Staff Sergeant* **Dec. 2018 – Aug. 2021**

- Commanded platoons of 40 recruits and instructed them in the skills of a combat Air Defense Operator.
- Supervised junior Drill Instructors in the correct handling, instruction, and management of recruit squads.
- Coached incoming officers to the norms, expectations, and regulations of new command posts.
- Collaborated with an extensive range of individuals from private to Lt. Colonel to ensure an organized, efficient, complete training experience at the IDF's Air Defense School.
- Award of Excellence (2020) for outstanding performance in the IDF Interceptor Training Course.

Israeli Scouts, Israel, *National Service Volunteer* **Jul. 2017 – Aug. 2018**

- Developed instructional materials for under-served school children in the subjects of Math, English, and Hebrew.
- Coordinated with local government officials and vendors to organize community events for hundreds of individuals.
- Facilitated the approval of various welfare benefits for under-served families.
- Prepared budgets, accommodations, materials, for the execution of a month-long travelling gallery that publicized the challenges and discrimination faced by Palestinians in Israel.

ArmorText, Tysons Corner, VA, *Android Developer* **May 2016 – May 2017**

- Interpreted a large existing codebase in a largely-independent fashion in order to optimize the app experience.
- Resolved multiple bug tickets weekly in an independent, self-motivated, environment.
- Improved existing code by ensuring documentation specs were met, and code was properly decoupled and abstracted.

Middle Eastern Entrepreneurs of Tomorrow, Israel, *Alumnus* **Jun. 2014 – Aug. 2016**

- MIT led program that taught web development and entrepreneurial fundamentals.
- Designed and implemented working web projects from scratch in small teams with an emphasis on strong entrepreneurial fundamentals.

SKILLS

Technical: Java, OCaml, Python, Linux, Git, Docker, OpenCV, HTML, Computer Vision, Verilog, Robotic locomotion
Team: Organization, leadership, instruction, empathy, receiving criticism, discipline, self-sufficient, collaboration
Languages: Hebrew (fluent), Arabic (intermediate)