

ABOUT

Passionate M.Sc. in Robotics student driven by a fervor for technology and science, with a strong focus on algorithms and deep learning for autonomous systems. A dedicated team player with exceptional communication skills, a quick learner, and committed to continuous improvement.

RESEARCH EXPERIENCE & ACADEMY

2022-Present	<p>M.Sc in Robotics, Mechanical Engineering, Tel Aviv University</p> <ul style="list-style-type: none">GPA 95/100 <p>Research Area:</p> <ul style="list-style-type: none">Learning tracking skills from human demonstrations across robots.Human-Robot Interaction and perception for smart exoskeleton (ICRA2024 workshop). <p>From initial research and solution design to final implementation and development of deep learning algorithms.</p> <p>Research Assistant at Tel-Aviv University's Robotics Lab web</p> <p>Learning in-hand perception and manipulation with robotic hands and sim2real</p> <ol style="list-style-type: none">*Azulay, O., *Curtis, N., Sintov, A., *Mizrahi, A., (2023). Augmenting Tactile Simulators with Real-like and Zero-Shot Capabilities. ICRA 2024 arXiv.Azulay, O., Curtis, N., Sintov, A et al. (2023). AllSight: A Low-Cost and High-Resolution Round Tactile Sensor with Zero-Shot Learning Capability. IEEE RAL arXiv. <p><small>*Equal contribution</small></p>
2018-2022	<p>B.Sc, Mechanical Engineering, Tel Aviv University</p> <p>Developed an autonomous mobile robotic cart 📺</p> <p>SW: python,C/C++,ROS HW: Nvidia Jetson nano, Arduino Mega.</p> <p>Demonstrating robotics knowledge, software engineering, and hardware integration to solve a real-world problem. (Outstanding project acheivment).</p>

Relevant Coursework: Deep learning | [📺](#) , SLAM and perception for autonomous navigation | [📺](#) Computer Vision, Human-Robot Interaction, Introduction to Robotics (+Lab), Control theory, Systems Dynamics and Control, Computational Intelligence

PROFESSIONAL EXPERIENCE

2022-Present	<p>Course Instructor - Computational Intelligence</p> <p>Designed and delivered hands-on python exercises covering topics such as genetic algorithms for optimization, fuzzy logic and intro to ML & DL 📺</p>
2020-2022	<p>Integration Engineer, Indoor Robotics</p> <p>Build, operate and design tests of autonomous drones and docking systems. Applied electronics expertise, optimized processes, and leveraged lab experience.</p>

IDF MILITARY SERVICE

Combat Service in the Submarine Unit | Sergeant major

2012-2016	<ul style="list-style-type: none">Commander at the unit training courseContributed in a combat position within the Submarine's Weapons Department.Outstanding cadet in the submarines training course (Class 103)
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SOFTWARE

Programming	Python, C++, MATLAB
Tools & libraries	PyTorch, OpenCV Git, Linux, ROS(1/2)
Engineering	Solidworks, 3D printing, Mechatronics

INTEREST

- Robotics
- Deep learning
- Computer vision
- Human-Robot Interaction
- Perception

AWARDS

Awarded the Faculty Scholarships for M.Sc excellence (2024)

LANGUAGE

Hebrew - Native
English - Excellent