NIMROD CURTIS

M.Sc Robotics | Junior Robotics Algorithms Engineer

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ABOUT

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

EDUCATION

2022-Present

M.Sc in Robotics, Mechanical Engineering, Tel Aviv University

Research Area:

- Learning visual navigation policy from human demonstrations across robots.
- Human-Robot Interaction and perception for smart exoskeleton systems using stereo camera and inertial sensors (Collaboration with ReWalk Robotics).

Research Assistant at Tel-Aviv University's Robotics Lab | web

Learning in-hand perception and manipulation with robotic hands and sim2real

1. *Azulay, O., ***Curtis, N.**, Sintov, A., *Mizrahi, A., (2023). Augmenting Tactile Simulators with Real-like and Zero-Shot Capabilities. ICRA 2024 | arXiv.
2. 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.

*Equal contribution

2018-2022

B.Sc, Mechanical Engineering, Tel Aviv University

Developed an autonomous mobile robotic cart |

SW: python,C/C++,ROS | HW: Nvidia Jetson nano, Arduino Mega.

Demonstrating robotics knowledge, software engineering, and hardware integration to solve a real-world problem. (Outstanding project acheivment).

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

Course Instructor - Computational Intelligence

Designed and delivered hands-on python exercises covering topics such as genetic algorithms for optimization, fuzzy logic and intro to ML & DL |

2020-2022

Integration Engineer, Indoor Robotics

Build, operate and design tests of autonomous drones and docking systems. Applied electronics expertise, optimized processes, and leveraged lab experience.

IDF MILITARY SERVICE

Combat Service in the Submarine Unit | Sergeant major

2012-2016

- Commander at the unit training course, oversaw 2 courses of 25 cadets each, demonstrating leadership and organizational skills.
- Occupied a combat position within the Submarine's Weapons Department, making substantial contributions to military operations.
- Outstanding cadet in the submarines training course (Class 103)

SOFTWARE

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

INTEREST

Autonomous systems, Robotics perception, Computer vision, Human-Robot Interaction

LANGUAGE

Hebrew - Native

English - Excellent