NOAM NAHUM

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TECHNICAL SKILLS

- Languages: C++, Python
- **Frameworks & Tools:** ROS 2, MoveIt 2, ros2_control, CMake, Git, Docker, OpenCV.
- **Embedded Systems:** ESP32 (ESP-IDF), CANBus, i2c, SPI.
- **Hardware:** PCB Design, Sensor Integration, IoT (Zigbee/DigiMesh), 3D Printing, Prototyping
- **Robotics:** Forward/Inverse Kinematics, Robot Control, Visual Servoing, URDF/TF.
- **Mechanical Tools:** SolidWorks
- **Other:** Agile, system design.

LANGUAGES

- Hebrew- Native language
- English- High level

Patents

- **C016-P1691-US Patent** - FINGERS IN A ROBOTIC GRIPPER FOR ACCURATE IN-HAND MANIPULATION

MILITARY SERVICE

Armored Corps, 7 Brigade IDF

Officer, Lutenant ranking,
Tank platoon commander | 2010 - 2014

SUMMARY

Robotics engineer and team leader with 5+ years of experience in robot control, manipulation, and system architecture. Expert in ROS 2, C++, and motion planning. Holder of a robotics patent. Passionate maker with strong hands-on skills and a proven ability to lead cross-functional teams and deliver complete robotic systems from concept to deployment

EXPERIENCE

Head of Robotics Software & Engineering

Unlimited Robotics | 2022 - Present

- Development of autonomous mobile manipulator robot for health care industry
- Leading a group of 10 developers
- Control & Motion Planning

Researcher

Tel Aviv University - Robotics lab | 2020 - 2022

- Research: in hand robotic manipulation using custom design vibrating fingers
  Advisor: Dr. Avishai Sintov

Formula Student Race Car - Team Leader

Tel Aviv University Formula Race Team| 2019 - 2022

- Leading a group of 35 students
- System process management
- Development and Design of Electrical Control System for Internal Combustion Engine Vehicle

Freelance & Personal Projects

KimbaAI | 2020 - Present

- Smart technology for improving sleep quality
- Mechanics/Electronic/Firmware prototyping

3D Printed Drone | 2021

- Designed and built a custom lightweight drone with 3D-printed frame, brushless motors, and Betaflight-based flight controller.
- Integrated power electronics, ESCs, and configured PID tuning for stable flight.

3D Printed Robotic Arm (In Progress)

- Design and implementation of compact FOC motor controller for BLDC actuation
- Integration of position feedback, control electronics, and motion planning.

EDUCATION

Tel Aviv University

M.Sc in Mechanical Engineering, outstanding achievements direct program | 2020 - 2022
Robotics, Mechatronics and control specialization

B.Sc Mechanical Engineering | 2017 - 2021

- GPA : 89.23
- 2017/2018 *Dean's List*
- 2019/2020 *Dean's List*