

# Osher Azulay




Passionate Robotist

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## Education

- Sep 2020 – Present | **Ph.D., Mechanical Engineering, Tel Aviv University**  
*Research Area: Robotic In-Hand Learning, Perception and Manipulation*  
*Advisor: Dr. Avishai Sintov*
- Sep 2018 – Jul 2020 | **M.Sc., Mechanical Engineering, Ben Gurion University**  
*Outstanding students program (93.8 GPA)*  
*Thesis: Wheel Loader Scooping Controller Using Deep Reinforcement Learning*  
*Advisor: Prof. Amir Shapiro*
- Sep 2015 – Jul 2019 | **B.Sc., Mechanical Engineering, Ben Gurion University**  
*Graduated with honors (90.1 GPA)*  
*Certificate of achievement: 2017-2018, 2018-2019*  
*Final Project: Development of Autonomous Robot for Soil Manipulation*

## Work Experience

- Sep 2020 – Present | **Graduate Researcher**,  ROB-TAU Robotics Lab, Tel-Aviv University
- Research and development of machine learning and planning algorithms for in-hand robotic manipulations
- Jul 2018 – Sep 2020 | **Student Researcher**,  BGU Robotics Control Lab, Ben-Gurion University
- Design and control of autonomous custom-built wheel loader using reinforcement learning
- Jan 2016 – Jul 2018 | **Research Assistant**,  BGU Robotics Control Lab, Ben-Gurion University
- Worked on various ROS based robotic platforms, including robotic arms and mobile robots

## Teaching Experience

- Fall 2020, Fall 2021 | **Intro to control theory**, Teaching Assistant, Mech Eng., Tel-Aviv University
- Spring 2020 | **Robotics and control lab**, Designed and created course material, Mech Eng., Tel-Aviv University
- Spring 2019 | **Intro to Electrical Engineering**, Teaching Assistant, Mech Eng., Ben-Gurion University
- Fall 2019 | **C Programming**, Teaching Assistant, Mech Eng., Ben-Gurion University
- Fall 2018 | **Intro to Mechanical Engineering**, Lab Instructor, Mech Eng., Ben-Gurion University

## Publications

- 2021 | 1. **Azulay, O.** & Shapiro, A. Wheel Loader Scooping Controller Using Deep Reinforcement Learning. *IEEE Access* **9**, 24145–24154 (2021).

## Skills

- Programming | Python, Matlab, C/C++
- Tools | ROS, PyTorch and TensorFlow
- Engineering | Solidworks, Microcontrollers and Mechatronics