

Yoav Golan

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Professional Experience

ForSight Robotics – Robotic Algorithms Engineer

2021 – Present

Develop multidisciplinary robotic algorithms integrating kinematics, sensing, and control; lead sensor selection, testing, and electronics design (including custom boards). Collaborate across mechanical, electrical, and software teams to develop advanced robotic surgery systems. Invented innovative solutions to challenging problems in the field of medical robotics.

Ben-Gurion University of the Negev – Lecturer & Researcher

2015 – 2021

Conducted research on robotic grasping, manipulation, and motion planning; lectured in robotics, CAD, manufacturing, and electrical engineering courses. Supervised many senior design projects and mentored students in the robotics laboratory.

Education

Ben-Gurion University of the Negev

Ph.D., Mechanical Engineering (Robotics), 2017 – 2011

M.Sc., Mechanical Engineering, 2015-2017

B.Sc., Mechanical Engineering, 2011-2015, Cum Laude

Technical Skills

Robotics, Kinematics, Sensor Integration, Electronics Design, Motion Planning, Embedded Systems, Control, Python, C/C++, MATLAB, SolidWorks.

Military Service

Israel Defense Forces – Armored Corps Officer (2006–2011); Platoon Commander and Instructor. Reserve Duty: Captain, Armored Corps (2011-2024), Unit 8200 (2024–Present).

Publications & Patents

Author and co-inventor on multiple publications and patents in medical robotics, path planning, manipulation, and haptics. Full list available on personal website or Google Scholar/Patents.

Misc.

Languages: English (native, US citizen), Hebrew (native)