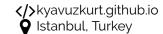
KADIR YAVUZ KURT





Control and Automation Engineering Student \sim ITU

SUMMARY

Control and Automation Engineering student specializing in robotics and reinforcement learning. Actively developing real-time locomotion and manipulation systems using ROS2 and NVIDIA Isaac. Passionate about building and contributing to open-source robotics frameworks.

SKILLS

Robot Dynamics & Control · Robot Simulation · Legged Locomotion & Manipulation · Reinforce-Core:

ment Learning

Tools: ROS2/ROS · Gazebo · Movelt · NVIDIA Isaac (Sim/Lab/Gym) · Linux · Git

Python \cdot C++ \cdot C \cdot MATLAB Languages:

INDEPENDENT PROJECTS -

- ROS2 Face Tracker: Real-time DNN face detection (30 FPS) Arduino-controlled pan-tilt ROS2 Control Framework integration.
- · Chess Engine: Developed a chess engine using Python Implemented minimax algorithm with alpha-beta pruning · Designed a simple GUI with Pygame.

EDUCATION

2024 - Ongoing B.S. Control & Automation Engineering

Istanbul Technical University

Expected Graduation: 2027

Extracurricular:

- IEEE ITU Student Branch Vice President in Charge of Technical Affairs (06/2025-Present); Technical Lead of RAS Committee (10/2024-06/2025): Led robotics initiatives, mentored 10+ students, and delivered workshops on Git, Linux, and Python.
- ITU Robotics Laboratory Undergraduate Researcher (10/2024-Present): Currently working on Human like motion generation for humanoid robots using reinforcement learning techniques and deployment of multi-agent reinforcement learning algorithms on quadruped robots.

2019 - 2024

B.S. Mechanical Engineering

Istanbul Technical University

Switched Majors in 2024

Extracurricular:

• ITU BIOBEE — Software Team Leader (05/2022-05/2024): Controlled pneumatic actuators via Raspberry Pi using IMU; explored EEG-driven actuation; competed in Teknofest 2023 robotics competition.

EXPERIENCE

05/2025 -Present

Robotics Software Developer

LTC İnovasyon A.Ş.

- · Develop and implement locomotion and manipulation systems for humanoid and quadruped robots.
- Utilize NVIDIA Isaac Lab and ROS2 for robotic simulation and control applications.

07/2024 09/2024 07/2023

09/2023

-Undergraduate Researcher Intern

METU ROMER

- Contributed to the Nautilus underwater robot project; implemented OpenCV algorithms for fin detection and tracking.
 - Assisted in development of autonomous underwater navigation systems and designed robot components.
 - · Simulated and controlled a UR3e robot arm using ROS and Gazebo; implemented real-time data logging.

LANGUAGES