MEHMET TURAN YARDIMCI

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Computer Engineer | Intelligent Robotic Systems

• Computer Engineering graduate specialized in robotics, AI, and autonomous systems
• Led a university UAV team (1.5 Adana AGM ALKAR) for 3 years, managing projects with YOLO, ROS1/2, Gazebo
• Developed object detection systems using YOLOv4–v8, integrated with Isaac Sim, Jetson Nano and Pixhawk
• Final year project on local planner benchmarking (BARN dataset) is under publication review
• Passionate about contributing to high-impact R&D teams building real-world intelligent systems

WORK EXPERIENCE

Medcem **07/2025 - 08/2025**
Computer Engineer Intern • Internship **Mersin/Silifke**
• Supported in-house software development using .NET and C#
• Designed and implemented algorithmic solutions for cement production automation
• Gained hands-on experience in software architecture, debugging, and UI design

1.5 Adana AGM Alkar **01/2022 - 07/2025**
Team Leader • Part-time **Adana, Türkiye**
• Managed a 10+ member team in designing autonomous UAV systems
• Led participation in TUBITAK and TEKNOFEST competitions with award-winning results
• Designed AI-based image processing modules for autonomous navigation
• Integrated ROS-based pipelines using YOLOv5, Jetson Nano, and Pixhawk flight stack

EDUCATION

Bachelor's degree in Computer Engineering (English)
Çukurova Üniversitesi Adana/Turkey • 10/2021 - 07/2025

Erasmus+ Bachelor's degree, Computer Science in Computer Science (English)
BİALYSTOK UNİVERSİTY OF TECHNOLOGY 01/2024 - 01/2025

CERTIFICATIONS

Supervised Machine Learning: Regression and Classification
Coursera

PROJECTS

Benchmark Local Path Planners BARN Challenge
- Developed a benchmarking framework to evaluate local path planners in complex and cluttered environments using ROS and the BARN dataset. The system integrates multiple planning algorithms and evaluates their performance under robot navigation scenarios. A related paper will be published soon.
- Technologies: ROS, Gazebo, Python, NumPy, Matplotlib, RViz, Git
- Developed a benchmarking tool in ROS using the BARN dataset to evaluate planner performance
- Compared multiple algorithms (e.g., DWA, TEB) in cluttered environments

PID Implementation with NXT Robot
- Implemented a PID control algorithm on LEGO Mindstorms NXT robots to enable motor control using real-time sensor feedback.
- Technologies: NotExactlyC (NXC), Bricx Command Center, PID Controller

Bank Application And Its Tests With JUnit

- Developed a banking application in Java with unit testing using JUnit. Test coverage is reported using the JaCoCo plugin via Maven integration. Deployed with Glassfish.
- Technologies: Java, Jacarta EE, JUnit, Maven, JaCoCo, Glassfish

Weather Application

- Created a weather forecasting mobile application using Kotlin and the OpenWeather API. It provides real-time weather data based on the user's location or an selected location.
- Technologies: Kotlin, Android Studio, REST API

SKILLS

Robotics & AI: CNNs, Gazebo, Isaac Sim, OpenCV, ROS, ROS2

Programming: Algorithms, C, C++, Java, Kotlin, Python, SQL

Frameworks & Tools: Android Studio, EJB, Git, Jakarta EE, JSF, Unreal Engine

Hardware Platforms: Jetson, Pixhawk

Other: APIs, Data Structures, English (Advanced), OOP