

# Ozan Akyildiz

## Robotics Engineer

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### Summary

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Robotics Engineer, MSc, with demonstrated experience in system design & lifecycle and open-source development. Designed and maintained robotic systems; implemented computer vision, navigation, mapping, control, and autonomy modules with ROS and OpenCV. Developed web, mobile, and desktop interfaces. Prototyped automotive-grade enclosures and harnesses. Coordinated SW teams and researchers, and tutored K-12 to college-level students. Studied batteries, actuators, and materials. I value having a breadth of knowledge both in and out of my discipline. Looking forward to taking on newer challenges with an ambitious and diverse team of designers and innovators.

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### Experience

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**CTO – THE 541N75, Istanbul, Turkey** **Feb 2022 – Present**  
▪ Designed the creative collective DAO that enables creators and investors to collaborate with treasury, governance, membership, and management modules. ▪ Determined the startup's organizational structure, bylaws, project pipelines, and community requirements. ▪ Mentored members and projects on software (CGI, AI), hardware, and project management.

**Lead Developer – Pera Finance, Istanbul, Turkey** **Dec 2021 – Dec 2022**  
▪ Increased code efficiency of the first-ever DeFi trading competitions to eliminate most of the gas costs. ▪ Designed the next version with customizable competitions created with a factory contract to support future modules and other projects. ▪ Oversaw copywriting and content creation together with a marketing agency, creating a social marketing campaign to a larger audience.

**Robotics Engineer – Radiation Safety & Control Services, Hampton, NH** **May 2020 – Dec 2021**  
▪ Converted a radiation-scanning cart into a robotic platform with live LIDAR-based SLAM, dynamic URDF model, and diagnostics. Updated the data collection model with continuous, automated binning and visualization. ▪ Designed and built multiple sensor circuits for gas supply control for Arduino and Embedded PCs. ▪ Designed a radiation source test unit with position control with an rPI-controlled actuator, custom-boot Ubuntu and a web-based touchscreen interface.

**Lead Systems Engineer – myRide, Chelmsford, MA** **March 2019 – April 2020**  
▪ Implemented a drive-by-wire control system on KIA Soul EV using Arduino and Jetson boards, designed and prototyped the mechanical assembly, with designing most of the custom hardware and software. ▪ Implemented vision and control modules on ROS, improved controller firmware, and CAN interface. ▪ Prototyped the controller enclosures, harnesses, interior panels, a gear-shifter, and the installation scheme. ▪ Carried out investor presentations and screened potential hires.

**Lab Assistant – Human-Inspired Robotics Lab, WPI, Worcester, MA** **Nov 2017 – Feb 2019**  
▪ Supervised graduate research and undergrad project teams that focus on teleoperation, mobile humanoids, and perception. ▪ Implemented USB, mocap, and voice controllers for a ROS robotic platform as well as its workstation and embedded system. ▪ Rewritten the system procedures to reduce training time to 2 hours from 9 with better user performance. ▪ Implemented a multicamera Android VR app with a companion Linux app to monitor perception experiments.

**Graduate Assistant – Amazon Robotics, WPI, North Reading, MA** **Jul 2017 – Aug 2017**  
▪ Mentored elementary and middle school students in SPARK, Junior Robotics Challenge Program( at Amazon Robotics) and LAUNCH weekly Robotics camps and coordinated undergraduate instructors.

**Technology Consultant – MainScreen, Istanbul, Turkey (Hybrid)** **Aug 2016 – Present**  
▪ Saved the entire outdoor signage budget by deploying an open-source system hosted on own servers with Ubuntu nodes.

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### Education

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**Worcester Polytechnic Institute (WPI)** **Worcester, MA**  
● **Master of Science, Robotics Engineering, 3.3** *May 2019*  
● **Bachelor of Science, Robotics Engineering, 3.54** *May 2016*

**Coursework Summary**..... **Honors**.....  
Motion Planning, Systems Engineering, Computer Vision, Robot Control, Dynamics & Navigation, Deep Learning, Machine Learning, AI, DSP, Embedded Systems  
**Presidential Scholarship, Turkey – 33<sup>rd</sup> in the nation.**  
**Charles O. Thompson Scholar, WPI**

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### Skills

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Programming	Software	Embedded	Professional	Language
C++	ROS	Jetson	Systems Engineering	Fluent English
Python	Linux	Raspberry Pi	Circuit Design	Native Turkish
JavaScript	OpenCV	Arduino	Robot Control	Beginner German
Solidity	QT	MSP	Sensor Modules	
MatLab	tensorflow		CAD	