

Kaan Kaval

Electric-Electronic Engineer

Dynamic Software Engineer with expertise in machine vision and embedded systems, honed at Tarsier Technology. Proven track record in optimizing hardware-software integration and developing innovative solutions. Proficient in Python and C/C++, with strong problem-solving skills. Successfully contributed to AI-based quality control systems and advanced imaging projects.



Contact

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github
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Skills

Python	●●●○○
Debugging	●●●●○
JIRA	●●●○○
Git	●●●○○
Linux	●●●○○
C/C++	●●●●○
C#	●●○○○
MachineVision	●●●●○
ROS	●●○○○

Work History

2023-02 - 2025-08	<h3>Software Engineer</h3> <p>Tarsier Technology, Denizli</p> <ul style="list-style-type: none">Trained extensively in machine vision, specializing in system optimization and hardware-software integration.Developed solutions for barcode reading on reverse vending machines and wine labels.Conducted research on lens, sensor, lighting selection, and I/O cable integration for machine vision systems.Completed 2 courses and many webinars for enhancing expertise in advanced imaging systems.Contributed to fabric anomaly detection projects, including real-time AI-based quality control systems.Represented the company at ITM, SAHA EXPO, Robot Yatırımları Exhibition, and Fashion Tech exhibitions.
2021-11 - 2022-12	<h3>Embedded System Developer</h3> <p>Orenda, Denizli</p> <ul style="list-style-type: none">Designed PCBs featuring isolated power areas, MCU integration, and stepper motor controls.Developed and tested STM32F103 firmware for motor control and LoRa communication.Created a C# application for robot control and successfully completed paint-shaking device projects.Delivered end-to-end solutions, including hardware design, soldering, and testing.
2021-09 - 2021-10	<h3>Intern</h3> <p>Pinova, Denizli</p> <ul style="list-style-type: none">Supported hardware design and prototyping activities.Simple PDKS system with esp32 and raspberry pi.
2021-02 - 2021-06	<h3>Intern</h3> <p>Camart, Denizli</p> <ul style="list-style-type: none">Conducted research on image processing techniques for industrial applications.Research on robotic kinematic algorithms for autonomous vehicles with Jetbot.

Stepper
Motor
Controls



Languages

Turkish: Native language

English

●●●●○○
Upper
intermediate (B2)



Interests

3D design and print



Education

2016-09 -
2021-06

Bachelor of Science: Electrical And Electronically Engineering

Gazi University - Ankara, Turkey

- Member of **Robogazi** , 2017 to 2021 .Leading the team with my friend about everything. **Overseeing** all activities, from **maintaining** and **organizing** the club area to conducting in-**depth research** on robotic structures. **Dedicated extensive** time to the project, working with effort from 10:00 AM to midnight to **achieve** our objectives.
- Thesis** Statement: [Mapping and Line Following in Autonomous Robots.](#)



Certifications

2020-06

ROS from Scratch

2023-06

Columbia University: Camera and Imaging Course

2023-08

MIT: Machine Vision Course