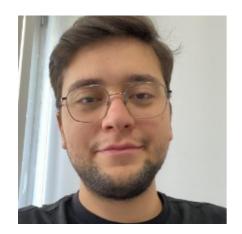
Kaan Kaval

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 Al-based quality control systems and advanced imaging projects.





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github

github.com/kaankaval

Skills

Python	•••00	
Debugging	••••	2021-09 - 2021-10
JIRA	•••00	
Git	•••00	
Linux	•••00	
C/C++	••••	2021-02 - 2021-06
C#	••000	
MachineVisio n	••••	
ROS	••000	



Work History

2023-02 -2025-08

2021-11 -

2022-12

Software Engineer

Tarsier Technology, Denizli

- 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 Al-based quality control systems.
- Represented the company at ITM, SAHA EXPO, Robot Yatırımları Exhibition, and Fashion Tech exhibitions.

Embedded System Developer

Orenda, Denizli

- 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.

Intern

Pinova, Denizli

- Supported hardware design and prototyping activities.
- Simple **PDKS** system with esp32 and raspberry pi.

Intern

Camart, Denizli

- Conducted research on **image processing** techniques for industrial applications.
- Research on robotic kinematic algorithms for autonomous vehicles with Jetbot.

Stepper Motor Controls





Turkish: Native language

English

Upper intermediat e (B2)



3D design and print



2016-09 - 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 indepth 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