# BAHADIR CAN

**Robotics & Computer Vision Engineer**

+90 542 214 0597 | bahadircan.bc@gmail.com | bahadircan.site | github.com/bahadircan-bc | linkedin.com/in/bahadır-can | Istanbul

## SUMMARY

Robotics and computer vision engineer with production experience taking perception and autonomy from prototype to deployment. I build real-time, on-device vision for embedded AI cameras and work across the robotics stack — SLAM, sensor fusion, and ROS 1/2. Former full-stack web developer; I move quickly through unfamiliar codebases and ship with a deploy-first, perfect-later mindset.

## SKILLS

**Computer Vision:** object detection & instance segmentation, on-device / edge inference (RKNN), model optimization, OpenCV, classical CV

**Robotics:** SLAM, sensor fusion, autonomous navigation & mapping, ROS 1 (Noetic), ROS 2 (Humble / Jazzy), simulation environments

**ML / AI:** deep learning methods, real-time inference, edge-device optimization

**Languages & Tools:** Python, C / C++, Git, Docker, Linux

**Web (prior):** Next.js, MERN stack, Web3 / Solidity, REST APIs

## EXPERIENCE

### Çözüm Makina
Istanbul, Turkey

**Robotics & Computer Vision Engineer**
03/2024 – Present

- Built real-time object detection and instance segmentation for an embedded AI camera (RKNN chipset), optimizing models for on-device / edge inference.
- Developed occupational health & safety (OHS) monitoring applications using AI cameras in industrial environments.
- Designed and implemented a real-time location system (RTLS) for trucks and vehicles in a harbor using existing CCTV — no new hardware.
- Moved into robotics: autonomous navigation for a biped robot using SLAM and sensor fusion across ROS 1 (Noetic) / ROS 2 (Humble · Jazzy) and simulation environments.

### Freelance (Self-employed)
Istanbul, Turkey

**Full-Stack Web Developer**
06/2023 – 02/2024

- Delivered Web and Web3 projects end-to-end with a focus on UI/UX and the MERN stack.
- Migrated builds to Next.js for SEO performance (versions 14 and 15).

### Broad
Istanbul, Turkey

**Lead Software Engineer**
03/2023 – 05/2023

- Built software modules for a hitchhiking and car-sharing mobile app.
- Integrated mapping and location services including Google Geolocation and Places APIs.

### ARGETÜRK
Istanbul, Turkey

**Software Developer Intern**
06/2021 – 09/2021

- Built a defect and anomaly detection pipeline for PCBs on a conveyor belt using classical computer vision.
- Designed transform and template-matching algorithms; developed a tool to render GERBER files into image formats.

## EDUCATION

### Yıldız Teknik Üniversitesi
Istanbul, Turkey

**B.Sc. Mechatronics Engineering**
2018 – 2025

## KEY PROJECTS & ACHIEVEMENTS

- **Search-and-Rescue Quadcopter** — TÜBİTAK-sponsored indoor UAV (onboard perception & autonomy).
- **ETHGlobal Istanbul** — shipped a dApp at the hackathon.
- **C Programming** — Necati Ergin's course (C ve Sistem Programcıları Derneği).

## LANGUAGES

Turkish — Native
English — Native