

# ALI DEMIR

## Mechatronics Engineer

+447361273091 a.dmr45@gmail.com  
https://tr.linkedin.com/in/alidmr/



## EXPERIENCE

### AVL in the United Kingdom / ADAS/AD Team Leader

Apr 2022– Present Coventry, UK

ADAS/AD Team Leader (Oct 2022 - Present)

- Leading ADAS/AD Team and all ADAS/AD related activities within the company.
- Working as a ADAS - Integration Team Lead for our costumer. Understanding the disconnects between different teams, preparing mitigation plans.

ADAS Systems Engineer (Apr 2022 - Oct 2022),

- ADAS diagnostic responsible for our costumer.

### FORD OTOSAN / Autonomous Vehicle Engineer

June 2021– Present Istanbul, Turkey

- Sensor Fusion and Object Tracking (SFOT) SW Development for Autonomous Vehicle Stack

Prystine Project (H2020) is completed.

- SFOT (4 Lidars and 6 Radars) SW Development of 360 degree perception for articulated heavy duty vehicles
- AEB (VRU incl.) for forward and backward maneuvers.

### TOFAS (STELLANTIS) / ADAS Development Leader

Dec 2018 – June 2021 Bursa, Turkey

- Forward Looking Camera (FLC) Release Engineer for FIAT TIPO
- Automatic Emergency Brake (AEB) Function Integrator for FIAT TIPO
- Development of ADAS and AD Features (e.g. Autonomous Valet Parking)
- Standardization Responsible for FLC and AD (Autonomous Driving) Features
- Validation Activities for AEB, LKA and Traffic Sign Information Systems (FIAT TIPO project)

### Progin Bilisim / ADAS Development Engineer

Sept 2016 – Aug 2018 Istanbul, Turkey

- Lane Departure Warning System (LDWS) for Semi Autonomous Vehicles.
- Vehicle Platooning System with V2V Communication
- Neural Network based E - Horizon System for Commercial Vehicles

### KocSistem / Computer Vision Consultant (Contractor)

Aug 2018 – Dec 2018 Istanbul, Turkey

ITEA: INSIST Project (<https://itea3.org/project/insist.html>)

- Face Detection and Recognition and Vehicle Detection and Traffic Analysis on SBCs
- Crowd Analysis, Pedestrian Detection and Tracking

### GDS Muhendislik ARGE / SW Engineer for Ship Main Engine Simulators

Oct 2014 – Aug 2016 Istanbul, Turkey

## PUBLICATIONS

<https://scholar.google.com/citations?user=iLOpWa4AAAAJ&hl=en>

## EDUCATION

**M.Sc. in Mechatronics Engineering, Istanbul Technical University**  
GPA: 3.50, Thesis : “Motion Planning and Control with Randomized Payloads Using Deep Reinforcement Learning”

**B.Sc. in Mechatronics Engineering, Okan University**  
GPA: 3.35

Udacity Sensor Fusion NanoDegree

Udacity Self-Driving Car Engineer NanoDegree

Level 2 Adult Mental Health First Aider

## ACHIEVEMENTS

**Honors Degree (B.Sc.)**  
Ranked as 4th Most Successful in His Class.

**Student Representative in University Congress**  
Representative of Electrics and Electronics Engineering Department from 2010 to 2012

## SKILLS

English (IELTS:6.5) ●●●●●●●●

Deep Learning ●●●●●●●●  
Machine Learning ●●●●●●●●  
OpenCV ●●●●●●●●  
Tensorflow ●●●●●●●●  
ROS ●●●●●●●●  
CARLA ●●●●●●●●

Python ●●●●●●●●  
Matlab ●●●●●●●●  
CAN Net. Manipulation ●●●●●●●●  
CANalyzer ●●●●●●●●  
Simulink ●●●●●●●●  
Linux ●●●●●●●●  
C / C++ ●●●●●●●●

## INTERESTS

Robotics Autonomous Vehicles  
ADAS Deep Learning