

ALI DEMIR

Mechatronics Engineer

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EXPERIENCE

ADAS Development Leader

TOFAS (Fiat - Chrysler Automobiles)

 Dec 2018 – Present  Bursa, Turkey

Computer Vision Consultant (Contractor)

KocSistem

 Aug 2018 – Dec 2018  Istanbul, Turkey

ITEA: INSIST (Integrated Service Delivery for Citizens' Safety and Comfort) Project (for more info: <https://itea3.org/project/insist.html>)

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

ADAS Development Engineer


Progin Bilisim

 Sept 2016 – Aug 2018  Istanbul, Turkey

- TUBITAK - 1507: Development of **Computer Vision Aided Lane Departure Warning System (LDWS)** for Semi Autonomous Vehicles.
- TUBITAK - 1511: Development of **Vehicle Platooning System** with V2V Communication
- Development of Neural Network based **E - Horizon System** for Commercial Vehicles

Algorithm Development Engineer

GDS Muhendislik ARGE

 Oct 2014 – Aug 2016  Istanbul, Turkey

- TUBITAK - 1507: Algorithm Side of Ship Main Engine Systems Simulation Project
- Ministry of Science, Industry and Technology: Development of Medical Training Equipment

Project Intern

TOFAS (Fiat - Chrysler Automobiles)

 Jun 2014 – Sept 2014  Bursa, Turkey

- Development of Production Quality Control System via Image Processing
- EU 7th FP Project: AUTORECON (https://cordis.europa.eu/project/rcn/101385_en.html)

PUBLICATIONS (3 OF 4)

- A. Demir and V. Sezer, "Motion Planning and Control with Randomized Payloads Using Deep Reinforcement Learning," 2019 **Third IEEE International Conference on Robotic Computing (IRC)**, Naples, Italy, 2019, pp. 32-37. (Invited for journal with further improvements)
- A. Demir and V. Sezer, "Intersection navigation under dynamic constraints using **deep reinforcement learning**," 2018 6th CEIT, IEEE, Istanbul, 2018.
- A. Demir, M. Erdem and V. Sezer, "Design and Experimental Validation of a Low Cost Autonomous Vehicle Testbed," AAT Conference, Istanbul, 2016, pp. 174 - 178.

EDUCATION



M.Sc. in Mechatronics Engineering,
Istanbul Technical University
GPA: 3.50, Courses Done, Thesis In Progress: "Motion Planning and Control with Randomized Payloads Using Deep Reinforcement Learning"



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

ACHIEVEMENTS



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



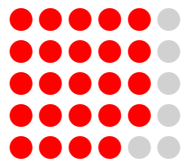
Student Representative in University Congress
Representative of Electrics and Electronics Engineering Department from 2010 to 2012

SKILLS

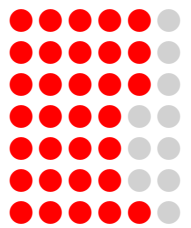
English (YDS:86.25)



Deep Learning
Machine Learning
OpenCV
Tensorflow
ROS



Python
Matlab
Simulink
Linux
C / C++
LabView
Arduino/RaspberryPi etc.



INTERESTS

AI and Robotics

Autonomous Vehicles

ADAS

Deep Learning

Deep Reinforcement Learning

Computer Vision