ALI DEMIR

Mechatronics Engineer

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

EXPERIENCE

Computer Vision Consultant (Contractor)

KocSistem

Aug 2018 – Present Istanbul, Turkey

ITEA: INSIST (Integrated Service Delivery for Citizens' Safety and Comfort) Project

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

for more info: https://itea3.org/project/insist.html

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

- A. Demir and V. Sezer, "Intersection navigation under dynamic constraints using **deep reinforcement learning**," 2018 6th CEIT, **IEEE**, Istanbul, 2018.
- A. Demir and M. C. Macit, "Cooperative adaptive cruise control using visible light communication," 2017 25th SIU Conference, **IEEE**, Antalya, 2017, pp. 1-4.
- 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: "Building Universal Controller 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