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

- 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.)**
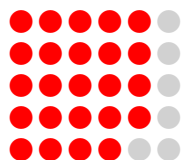Ranked as 4th Most Successful in His Class.

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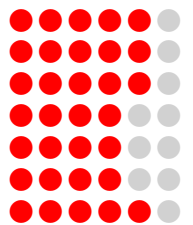
SKILLS

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