



# Ali Demir

## Mechatronics Engineer

- 28 June 1991
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## Skills

English (YDS: 86.25)

Matlab - Simulink

OpenCV(C++)

TensorFlow

ROS

Python

Machine Learning

Linux

LabView

Arduino

Embedded C

C

(\*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

References available upon request.

## summary

He is currently working on different ADAS projects. He is very curious about SOTA deep learning techniques and their applications on different areas, and mostly knows about CNN (convolutional neural network) architectures in the domain of classification and object detection. He also knows about main problems can be met during training this networks and SOTA solutions for this problems. He is open to offers from different areas and very eager to learn new things.

## education

- Since 2015 **M.Sc. Student in Mechatronics Engineering** Istanbul Technical University  
Current GPA: 3.50/4.00, Courses Completed, Thesis in progress
- 2009 - 2014 **B.Sc. in Mechatronics Engineering** Okan University  
GPA: 3.35/4.00, Honors Degree  
Ranked as 4th Most Successful in his class  
Student Representative of Electrics and Electronics Department in University Congress from 2010 to 2012
- 2012 - 2013 **B.Sc. in Mechatronics Engineering** Opole University of Technology  
GPA: 3.96/4.00  
As an Exchange Student with Erasmus Program

## publications

- 2017 "Cooperative Adaptive Cruise Control Using Visible Light Communication", IEEE Signal Processing and Communications Applications Conference, 2017, Antalya, Turkey.
- 2016 "Design and Experimental Validation of a Low Cost Autonomous Vehicle Testbed", AAT Conference, 2016, Istanbul, Turkey.

## experience

- 09/2016 - **Progin Bilisim** Istanbul  
Development of *Computer Vision Aided Lane Departure Warning System (LDWS) for Semi Autonomous Vehicles* (Tubitak, Project No: 7151056). (Completed)  
Development of *Vehicle Platooning System with V2V Communication* (Completed)  
Development of *E - Horizon System* for Ground Vehicles
- 2014 - 2016 **GDS Muhendislik ARGE** Istanbul  
Algorithm Side of Ship Main Engine Systems Simulation Project (TUBITAK - 1507)  
Development of Medical Training Equipment (Ministry of Science, Industry and Technology)
- 2014 **TOFAS (Fiat - Chrysler Automobiles)** Bursa  
Development of Production Quality Control System via Image Processing
  - Programming and Software Development via LabView
  - Reducing Negative Light Effects on the Image Processing
  - 3D Mechanical Design for Installation of the System on Production Line
 AUTORECON (EU 7th FP Project)
  - As an Assistant Field Engineer
  - Industrial Six Axis Robot Programming (Comau C4G and C5G)
  - Robotic Welding
- 2014 **Mekar Lab. at Okan University** Istanbul  
Studying on Radar Sensors to be used for "Adaptive Cruise Control" systems of cars which also was his Graduation project.
  - Object Detection
  - Creating Algorithm for data Acquisition from Radar sensor
  - Communication between sensor and MicroAutoBox via CanBus