



# Ali Demir

## Mechatronics Engineer

- 28 June 1991
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## Skills

English (YDS: 83.75)

Matlab - Simulink

OpenCV(C++)

TensorFlow

Python (Numpy)

Machine Learning

Linux

LabView

Arduino

Embedded C

C

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

References available upon request.

## 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 Electric 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

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

## awards

- 2009 - 2016 **Turkish Government Scholarship (which covers all the tuition fees of Private University)**

## 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)  
Currently Working On *Vehicle Platooning System with V2V Communication* (Tubitak, Project No: 1140087).
- 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