

# Ahmet Taha Albayrak

*Project Consultant*  
*TÜBİTAK Space Technologies Research Institute*

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## Education

- 2019–  
Current **Middle East Technical University**, *Master of Science, Electrical and Electronics Engineering.*
- 2015–2018 **Bilkent University**, *Bachelor of Science, Computer Engineering.*  
CGPA :3.32/4.00
- 2013–2015 **Bilkent University**, *Bachelor of Science, Industrial Engineering.*  
(Left) CGPA :3.33/4.00
- 2009–2013 **Enderun Science High School**, *Bachelor of Science.*  
CGPA: 96,91/100 (First Class)

## Work Experience

- October 2018 **Project Consultant**, TÜBİTAK SPACE TECHNOLOGIES RESEARCH INSTITUTE, ANKARA,  
– Current TURKEY.  
Image Processing Group
- September **Software Engineer**, TÜBİTAK BİLGEM SOFTWARE TECHNOLOGIES RESEARCH INSTI-  
2017 – June TUTE ANKARA, TURKEY.  
2018 Challenging software bugs and problems from other teammates were solved.
- July 2017 – **Intern**, HAVELSAN ANKARA, TURKEY.  
September Face Recognition and Smart Parking Systems were implemented with OpenCV using different machine  
2017 learning algorithm
- June 2017 – **Intern**, TÜBİTAK BİLGEM SOFTWARE TECHNOLOGIES RESEARCH INSTITUTE  
July 2017 ANKARA, TURKEY.  
All test of software were automated and renewed according to newest software test documents

## Honors and Rewards

- 2018 **Bilkent University**, Data Science Reward.
- 2014 - 2018 **Bilkent University**, High Honor and Honor Certificates.
- 2013 - 2018 **Bilkent University**, Full Scholarship.
- 2013 **LYS**, 744th Best Student In University Entrance Exam.

## Academic and Social Activities

- 2018- Current **Active Member**, ANKARA KENDO SPORT CLUB.
- 2017 – 2018 **Board Member**, BILKENT ÜNİVERSİTESİ PROGRAMMING CLUB.
- 2016 – 2018 **Volunteer**, BILKENT ÜNİVERSİTESİ TOPLUMSAL DUYARLILIK PROJELERİ (TDP).
- 2016 – 2017 **Active Member**, BILKENT ÜNİVERSİTESİ PROGRAMMING CLUB.

## Skills

- Programming Language C, C++, JAVA, JAVASCRIPT, MATLAB, VERILOG, ASSEMBLY, PYTHON

Softwares OPENCV, SELENIUM, DOCKER, MICROSOFT OFFICE, PYCHARM, VIRTUAL STUDIO CODE, VIVADO IDE

## Publication

*A.T. Albayrak, İ. Atıl, "Hyper Parameter Optimization for Deep Learning using Volunteer Computing" presented at the 6th High Performance Computing Conference, Oct. 8-9, 2010.*

## Projects

2019-2020 **BrowserTTD.**

This project aimed to run any C/C++ software to run in browser. In order to run OpenTTD game in a browser, Emscripten is used to compile C/C++ code to web assembly code.

2019 **AtılgAN.**

This project aimed to generate horror movie posters. This model is based on CycleGAN. Images in dataset includes sampling of horror movie trailers from YouTube.

2019 **MusiGAN.**

This project aimed to generate instrumental musics with synthesis of different instrument. The model is based on MuseNet. The given first three notes system will generate 1 min long Turkish classical music

2017 – 2018 **Aerocast, SENIOR PROJECT.**

The project aimed to minimize the efforts put into finding the best airfare deal available by suggesting its users the optimum purchase date for a certain itinerary

2018 **Investigating World Cup Web Server Logs .**

The project is aimed to detect web attacks and web crawlers. A data with size of 120 GB is statistically analyzed using Map-Reduce interfaces of Hadoop.

## Communication Skills

2018 Poster at Bilkent University CS Fair 2018

2018 Poster at Bilkent University STS Fair

## Languages

Turkish Mother Language

English Advanced

Arabic Basic

## Interests

- o Historical Reading
- o Traveling
- o Playing Reed Flute
- o Kendo