

## EDUCATION

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- **Boğaziçi University** İstanbul, Turkey  
*Bachelor of Engineering in Electrical and Electronics; GPA: 3.63* Sept. 2014 – Jun. 2019
- **Konya Meram Science High School** Konya, Turkey  
*Stem Student; GPA: 3.80 (95.0/100.0)* Sept. 2010 – Jun. 2014

## EXPERIENCE

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- **Aselsan** Ankara, Turkey  
*Software Design Engineer* Apr 2019 - Today
  - **R& D Engineer:** I am developing algorithms (in C++) and deep learning models as part of military thread classification, observance product that works real-time
- **Aselsan** Ankara, Turkey  
*Software Internship* July 2018 - Sept 2018
  - **State of Charge Estimation:** I have written a state of charge estimation program in MATLAB using extended Kalman Filter algorithm in batteries as part of the battery management systems
- **Tübitak Space Technologies Research Institute** Ankara, Turkey  
*Software Internship* June 2018 - July 2018
  - **Audio Source Separation:** I have examined the performance of an audio source separation algorithm, I have written a library to manipulate audio files in Python, and incorporated that library with the already written audio source separation algorithm
- **Boğaziçi University** İstanbul, Turkey  
*Teaching Assistant* Feb 2017 - June 2017
  - **Introduction to Digital Systems:** At the laboratories I have assisted the other assistants of the class
- **Tübitak Bilgem Advanced Technologies Research Institute** Ankara, Turkey  
*Software Internship* July 2016 - Aug 2016
  - **KLT Tracker:** It is an algorithm to track interest points in a video, 32 bit version of it for infrared videos was written during the internship.
- **Fatih Sultan Mehmet High School** İstanbul, Turkey  
*Mathematics Teacher* Feb 2015 - June 2015
  - **University Preparation:** Mathematics classes are given to the Foreign students who are preparing for the Turkish University Entrance Exam.

## PUBLICATIONS

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- "Vehicle Tracking in Land Roads and Railways Using DAS Systems", Jan 2021

## PROJECTS

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- **Simple Deep Learning Library:** A library written in C++ for training simple neural network architectures
- **Audio Fingerprint:** A program to match an unknown song with the songs in database (like Shazam).
- **Taboo Game:** Taboo game in 2 languages using Python (Turkish and English)
- **Retail Product Features:** Feature visualization of the various retail products are done using convolutional neural networks in tensorflow

## PROGRAMMING SKILLS

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- **Languages:** C++, Python, MATLAB, C, VHDL, HTML, CSS
- **Technologies:** Tensorflow, Keras, Pytorch Visual Studio, Git, OpenCV

## LANGUAGES

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- **Turkish:** Mother Tongue **English:** Advanced **French:** Beginner

## EXTRACURRICULAR

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- **Hiking:** Member of the Hiking Istanbul Group
- **Table Tennis:** One of my long time passions

## ANNEXES

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- **Github:** <https://github.com/akurmustafa/>
- **Linkedin:** <https://www.linkedin.com/in/akurmustafa/>