

# Sinan Emir KORKMAZ

*Electrical & Electronics Engineer*

+90 (538) 526 95 42  
✉ sinanemirkorkmaz@gmail.com



## Education

- 2019–  
Ongoing **Master of Science, Cybersecurity**, *Middle East Technical University, Ankara.*
- 2014–2018 **Bachelor of Science, Electrical & Electronics Engineering**, *Middle East Technical University, Ankara.*
- 2013–2014 **The English Preparatory Program**, *Middle East Technical University, Ankara.*
- 2009–2013 **High School Degree**, *Zonguldak Fen Lisesi, Zonguldak.*

## Experience

- 2018–  
Ongoing **Embedded Systems Engineer**, *Tualcom Inc., Ankara.*
  - Designed a programming language and implemented its compiler on python
  - Designed a pipelined processor and implemented on verilog
  - Worked on GPS receiver project:
    - Demodulation of the satellite signals
    - Finding the satellites' positions from demodulated signals
    - Solving the receiver's position from satellites' positions
  - Designed a Controlled Reception Pattern Antennas device as GPS anti jammer
  - Worked on Tracker Antenna Device
  - Designed an authentication system for portable software
  - Designed a simulation software with python for multiple antenna receptive pattern
- 2017–2018 **Part-time Engineer**, *Tualcom Inc., Ankara.*
  - Worked on embedded Linux systems for video compression solutions.
  - Worked on Nvidia Tegra modules and their custom kernels
  - Created a browser based control interface for embedded devices
- Summer 2017 **Intern**, *Tualcom Inc., Ankara.*
  - Worked on embedded Linux systems for video compression solutions.
- Summer 2016 **Intern**, *TUBITAK-BILGEM ADVANCED TECHNOLOGIES RESEARCH INSTITUTE*, Ankara.
  - Worked on Digital Signal Processing and radar simulation

## Languages

Turkish Native  
English Advance

## Computer skills

- Advanced in Verilog Hardware Description language
- Advanced in Python
- Advanced in C programming language
- Good with C++ for Object-Oriented Programming
- Good with ARM Assembly
- Good with JavaScript
- Good with SQL
- Good with machine learning algorithms
- Intermediate level of knowledge about Robotics
- Intermediate level of Matlab
- Familiar with Vivado High Level Synthesis(HLS) tool
- Beginner level of Scala

## Extracurricular Activities

- Honorable mention on The Senior Engineering Design Course 2018 for competitive performance
- One of the two head organizer of HackMETU 2015
- Instructor of IEEE METU Computer Society "ANSI C programming lessons"
- Instructor of EESTEC (Electrical Engineering Students' European Association) "DreamCity Project" technical lessons
- Moderator of forum.ceviz.net (One of the biggest programming forum in Turkey) for a short term
- Vice-Chairman of IEEE ODTU Computer Society 2014-2015
- Participant of "ACM (Association for Computing Machinery) 2014 Metu Camp"
- Participant of TUBITAK programming camps summer (2010) and winter (2011)
- Member of the Hidrofen Team at "Tubitak Alternatif Enerjili Araç Yarışları 2011"