Sinan Emir KORKMAZ

Electrical & Electronics Engineer

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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. Gpa: 2.94
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 reciever 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 "ANSII C programming lessons"
- Instructor of EESTEC (Electrical Engineering Students' European Association) "DreamCity Project" technical lessons
- Moderator of forum.ceviz.net (One of the biggest programing 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"