ÖMER SAID ÖZTÜRK

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Education

Sabancı University cGPA: 3:84/4:00
B.Sc. Electronics Engineering *2018 − 2023(Expected)*
B.Sc. Computer Science and Engineering *2020 − 2024(Expected)*

Research Experience

Undergraduate Research Intern June 2022 − September 2022
University of Kent − iCSS *Canterbury, Kent, United Kingdom*
- Worked on manipulating open-source true random number generators' output entropy. The manipulation includes PCB-level component manipulation and injecting manipulated software while bypassing software verification.

Undergraduate Researcher September 2021 − Present
Sabancı University *Istanbul/Turkiye*
- Analysing the cyber-warfare of Ukraine and Russia.
- Developed several web crawlers for global web scans which are capable of scanning over a million websites in one hour. Some of those crawlers have NLP implementation for pre-processing.
- Tested the effectiveness of the most popular open-source static code analysis tools for vulnerability analysis by writing over 100 vulnerable codes.

Industry Experience

Embedded Programming Intern July 2020 − September 2020
Baykar Technologies *Istanbul/Turkiye*
- Developed code standardization plugin for eclipse-based IDEs.
- Implemented the python library for inter-hardware communication.

Extracurricular Activities & Volunteer Work

Co-Founder & President September 2021 − Present
SU Cyber (Sabancı University Cybersecurity Club)
- I formed the university cybersecurity team in 2020. Then with the team members, we founded SU Cyber in 2021.

Learning Assistant September 2021 − January 2022
Undergraduate Project Course (PROJ 201)
- Held guiding sessions for the low voltage DC-DC converter project.

Instructor & Mentor June 2019 − January 2022
Turkish Technology Team Foundation
- To middle-school and high-school students, I taught **Cybersecurity** (June 2019 - September 2019), **Artificial Intelligence** (September 2019 - January 2020) and **Internet of Things** (November 2019 - February 2020) at the introductory level. Also, I have been the mentor of a team of high-school students who were designing and built an unmanned aerial vehicle.

Team Member & Department Leader July 2020 − June 2022
Sabancı Motorsport Technologies (Sabancı University Formula Student Team)
- Sabancı Motorsport Technologies builds electric formula student car with carbon monocoque chasis
- Served as a member of the electronics department member between 2020-2021. During that time, I taught designing **PCB** to other team members and built the **CANbus** infrastructure of the car.
- Served as the leader of the powertrain department between 2021-2022. With my team, we have designed and partially built a high-voltage high-current battery pack that is capable of giving 15-30A current at 400V voltage for a 22-minute duration without overheating.

Co-Founder & Board Member June 2019 − June 2021
Sabancı University IEEE Student Branch
- Served as a board member between 2019-2020 and Leader of Communications Society between 2020-2021

Campaign Volunteer February 2019 − June 2019
Sabancı University Civic Involvement Projects (CIP)
- Did voluntary activities with mentally disabled high-school students

Skills

Programming languages	C · C++ · Java · Go · Python · x86 Assembly
Hardware Descriptive Languages	Verilog HDL
Circuit design tools	Eagle PCB · Proteus · Cadence Virtuoso (IHP 130nm technology)· LTspice
Other	Software reverse engineering · Cryptography · Web application pen-testing

Awards & Honours

Dean's List, high honor for the years 2019, 2020, and 2021 in Sabancı University.
YKS (Turkiye's National University Entrance Exam) (Numerical section), 913th among $2,260,273$ people.
Istanbul Science Olympics 2017 − Computer Science category, Bronze Medal