

FURKAN GÖKSEL

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EDUCATION

Middle East Technical University, Ankara
Department of Computer Engineering

2016 - Present
CGPA: 3.84

PROJECTS

Process Tracer

The project aims to monitoring and manipulating the system calls made by a Linux Process. With manipulating option, this project provides researchers to ease fuzzing the system calls of the suspicious programs. The project is written in C language.

AgriLoRa: A Smart Agriculture Framework

This project aims to develop a complete cost-effective Smart Agriculture Solution. In this project, I'm responsible for establishing Wireless Sensor Network using LoRa modules. More specifically, I am trying to add new Ad-Hoc routing protocols for communication between LoRa gateways. The novelty is standard LoRaWAN protocol uses star topology, but AgriLoRa uses mesh topology to eliminate Internet connection necessity.

Think Before Fire

This project aims to solve ordering problems in IoT systems. I'm the first author of the project and we are planning to submit this paper for IoTDI2021.

TECHNICAL STRENGTHS

Simulation	OmNet++
Languages	C, C++, Python, MySQL, PIC Assembly, x86 Assembly

WORK EXPERIENCE

Secrove Information Security Consulting, Istanbul
Intern

March 2019 - September 2019

- During my internship, I performed penetration tests for mobile and web applications. Also, I developed Process Tracer here.

Secrove Information Security Consulting, Istanbul
Security Researcher

March 2020 - September 2020

- Working in one of the company's project and researching new security areas.

Dr. Z. Berkay Çelik, Purdue University
Undergraduate Student Researcher

July 2020 - October 2020

- I was accepted to his research group, and I am doing a research about IoT systems and their security.

PRESENTATIONS / TALKS

A New Approach to Dynamic Analysis: Process Tracer

30 May 2020

BSCon2020

- I have made a presentation about system calls, manipulation of them and an analysis tool, that is written by me, Process Tracer.

AWARDS / HONORS

- GUIDED2020: 2nd Guided Research Symposium 1st place with project AgriLoRa
- ICS & IoT Cyber Security Bootcamp CTF: Blackout 1st place with team KöpükRF