

# FURKAN GÖKSEL

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## EDUCATION

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**Middle East Technical University, Ankara**  
Department of Computer Engineering

*2016 - Present*  
CGPA: 3.84

## PROJECTS

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### Process Tracer

The project aims at 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 file. 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. We will publish the paper of the research in June 2020.

## TECHNICAL STRENGTHS

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<b>Simulation</b>	OmNet++
<b>Languages</b>	C, C++, Python, MySQL, PIC Assembly, x86 Assembly

## WORK EXPERIENCE

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**Secrove Information Security Consulting, Istanbul**  
*Intern*

March 2019 - June 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 - Present

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

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

July 2020 - Present

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

## PRESENTATIONS / TALKS

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**A New Approach to Dynamic Analysis: Process Tracer**  
*BSCon2020*

30 May 2020

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

## AWARDS / HONORS

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