Sabri Mustafa Kahya

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Education

2022-now	PhD in Computer Science, **Technical University of Munich (TUM)** Research Assistant & PhD Candidate under *Prof. Dr.-Ing. Eckehard Steinbach*'s supervision
2017-2020	MSc in Computer Science, **Technical University of Munich** Graduation project under *Prof. Daniel Cremers*' supervision Multi-View Shape-From-Shading
2013-2017	BSc in Computer Engineering, **Istanbul Technical University (ITU)**, Rank: 4 Graduation project under *Prof. Yusuf Yaslan*'s supervision Labeling Unlabeled Data Points using Local & Global Consistency

Work Experience

TUM, Research Assistant & PhD Candidate *Jun 2022 - Now*

- Conduct research on deep learning and computer vision, specifically Out-Of-Distribution (OOD) detection
- Develop and apply learning-based radar imaging techniques, advancing radar technology and applications
- Organize master-level courses and supervise student theses (BSc, MSc) and internships
- Publish papers, present at conferences, and peer-review
- Engage in dynamic collaboration with Infineon Technologies, integrating academic research with industry
- Created end-to-end real-time human presence and OOD detection pipeline using 60GHz FMCW radar
- Created a real-time facial authentication and OOD detection system utilizing FMCW radar
- Developed a real-time facial expression recognition solution with FMCW radar

Alten & Infineon Technologies, Engineering Consultant, Munich DE *July 2021 - March 2022*

- Created post-hoc anomaly detection solution on top of radar-based human presence detection model

Infineon Technologies, Computer Vision & Signal Processing Engineer, Munich DE *Oct 2019 – April 2021*

- Developed face spoofing detection application using Infineon's ToF camera
- Created 3D-reconstruction and object detection/segmentation pipeline using ToF camera
- Worked on DoA (Azimuth & Elevation) estimation and processing with FMCW Radar
- Worked on Heart & Breath Rate Estimation using FMCW Radar
- Worked on deep learning-based target classification system with FMCW Radar
- Created embedded solutions for PSOC6 Microcontroller

Motius & BMW, C++ Developer, Munich DE *Nov 2018 – July 2019*

- Developed a software-based artificial face system for brand-new car displays
- Additional information cannot be given due to strict confidentiality

P3 Group, Python Developer, Aachen DE, Remote *Nov - Dec 2018*

- Developed a Python library for creating, parsing, and editing data in the IODEF JSON format

Huawei, R&D Intern, Turkey *June - July 2015*

- Developed a web application to evaluate employees based on responses to online survey questions

Cybersoft, Android Developer Intern, Turkey *Jan - Feb 2015*

- Developed "Geyik," an instant messaging application for Android devices

Technical Skills

Skills:	Python, C/C++, matlab, Java, Assembly, pytorch, tensorflow, opencv, Open3D, opencl, opengl, CMake, Git, Docker
Interests:	OOD Detection, Anomaly Detection, Radar Image Analysis, Generative Models, slam, 3D Reconstruction, Algorithms, Competitive Programming (two times finalist in a national competition by ITU)