

Sabri Mustafa KAHYA

Munich, Germany | mustafa.kahya@tum.de

+49 177 83-96-024



EDUCATION

2022-NOW	PhD in COMPUTER SCIENCE, Technical University of Munich (TUM) Research Assistant & PhD Candidate under Prof. Dr.-Ing. Eikehard 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	<i>Jun 2022 - Now</i>
<ul style="list-style-type: none">• 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	<i>July 2021 - March 2022</i>
<ul style="list-style-type: none">• Created post-hoc anomaly detection solution on top of radar-based human presence detection model	
INFINEON TECHNOLOGIES, Computer Vision & Signal Processing Engineer, Munich DE	<i>Oct 2019 - April 2021</i>
<ul style="list-style-type: none">• 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	<i>Nov 2018 - July 2019</i>
<ul style="list-style-type: none">• 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	<i>Nov - Dec 2018</i>
<ul style="list-style-type: none">• Developed a Python library for creating, parsing, and editing data in the IODEF JSON format	
HUAWEI, R&D Intern, Turkey	<i>June - July 2015</i>
<ul style="list-style-type: none">• Developed a web application to evaluate employees based on responses to online survey questions	
CYBERSOFT, Android Developer Intern, Turkey	<i>Jan - Feb 2015</i>
<ul style="list-style-type: none">• Developed "Geyik," an instant messaging application for Android devices	

TECHNICAL SKILLS

Skills:	PYTHON, C/C++, MATLAB, JAVA, ASSEMBLY, PYTORCH, TENSORFLOW, OPENCV, OPEN3D, OPENCN, 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)