

Tahsincan KÖSE



PERSONAL DATA

PLACE AND DATE OF BIRTH: Nevsehir, Turkey | 22 June 1995
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WORK EXPERIENCE

Current	Software Engineer at MilSOFT, Ankara
JUNE-SEP 2017	Robotics Software Engineer Intern at KOVAN Research Lab, TSK MOD-SIMMER, METU Ankara <ul style="list-style-type: none">• Development of a Swarm UAV Motion Planning Project from the scratch using Robot Operating System (ROS).• Successfull manipulation of multiple UAVs in uniform obstacle-rich 3D space with collision-free movements to the desired goals.• Documentation on how to refactor the application to any form obstacles.• Simple GUI written in JavaFX to provide ability of asynchronous goal stimuli.
OCT 2016-MAY 2017	Student Assistant at COMPUTER CENTER, METU Ankara <ul style="list-style-type: none">• Cloning of operating system images to the whole university computers.• Implementation of Laboratory Server and Client System
JUNE-AUGUST 2016	Software Developer Intern at Software Research & Development Center, METU Ankara <ul style="list-style-type: none">• Clinical document transformation tool written in Java.• User management & messaging tools based on SOAP and REST protocols using Java, AngularJS and mySQL.• User management & messaging console application based on Socket Programming .

EDUCATION

- 2015-Current Senior Student at **Middle East Technical University, Ankara**
Computer Engineering
CGPA: 3.47/4.00 [| Transcript](#)
- 2013-2015 (1st year English prep. school), **Istanbul Technical University, Istanbul**
Computer Engineering
CGPA: 3.68/4.00
- 2009-2013 **Kayseri Science High School, Kayseri**

PROJECTS

- OCT 2017 - Current **Collaborator:** Senior project with Robotic Manipulator UR5
Development of a system that adds perception to a UR5 Robotic arm through Kinect2 camera, which in return harmonically collaborates with a human operator through proper motion planning to fulfill a task (e.g. fruit packing) that requires both delicate and heavy sub-tasks.
- JUNE-SEP 2017 **Swarm UAV:** Research Project on Programmable Quadcopters
Implemented Motion Planning of Single/Multiple Quadcopter(s) in Collision-free/rich 2-D & 3D environments. Visualized planned trajectories in Python using PyGame. Detailed documentation of the implementation, possible future improvements and approaches embraced. Written simple GUI in Java to facilitate the learning process of novice developers recently joined to the project.
- JUNE-AUG 2016 **CDA2FHIR:** Clinical Document Transformation tool for a company.
Implemented transformation rules of primitive types and components of CDA to FHIR in Java. Produced conventions for gray fields in the case of lacking one-to-one transformation ability. Detailed documentation to denote exceptional points. XML to JSON transformation.

SCHOLARSHIPS & CERTIFICATES

- AUGUST 2017 BYOYO 2017 at **Hacettepe University**
Topics involved are Computer Vision, Motion Planning, Deep Learning and Robotics
- FEB 2017 ISBAK Software Hackathon at **Istanbul Technical University**
Competitive programming and real-life problem solving
- APRIL 2018 ToRK at **Bogazici University**
Topics, which include Motion Planning, Control, Vision and Machine Learning relating to Software as well as Soft Robotics and Exoskeletons relating to Hardware; and their applications and use cases on Medicine, Surgery, Agriculture, Social Services and Military

LANGUAGES

- TURKISH: Native
 ENGLISH: Fluent
 GERMAN: Intermediate

SKILLS & ABILITIES

Programming Languages:	C, C++, Python, Java, Javascript, Haskell, Prolog
Robotics:	ROS, Gazebo, Rviz, Moveit, MATLAB
Learning:	Scikit, Tensorflow, Octave
Computer Vision:	OpenCV, NumPy, PyTorch
Embedded Development:	MPLABX, FPGA, Verilog, Assembly, PIC18
Web Development:	Flask, AngularJs, HTML, CSS, SOAP, REST, AJAX, Maven, Tomcat, MySQL, PostgreSQL
Tools and IDEs:	LaTeX, Eclipse, IntelliJ IDEA, Visual Studio Code, Sublime Text2
Java Frameworks:	JavaFX, Mockito, Junit
Version Control Systems:	Git, SVN