Hüseyin Avni YASAR

Date of birth: 31/07/1995 | **Nationality:** Turkish | **Gender:** Male | (+90) 5535242233 | yasarr.avni@gmail.com |

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About me: My dream is to be a part of advanced technological development and a sustainable nature that will contribute to human well-being.

EDUCATION AND TRAINING

09/2019 – 12/2021 – Ankara, Turkey
MASTER OF SCIENCE - MS COMPUTATIONAL AND APPLIED MATHEMATICS – Middle East Technical University

- The aim of this work is to use Multi-fidelity models to obtain similar accuracy to the High Fidelity Model but at much less computational cost, greatly improving the efficiency of the reliability analysis procedures and use this model to make the structural design optimization of the panel.
- Developing machine-learning-based solutions to augment physical simulations

Supervisor: Prof. Dr. Ercan Gürses (METU)
3.30/4.00 | Thesis: Development of Multi-Fidelity Trained ANN for Optimisation of Stiffened Structures

09/2013 – 06/2018 – Ankara, Turkey
BACHELOR OF SCIENCE (B.S.), MECHANICAL ENGINEERING – Middle East Technical University

Engineering thinking, CAD-CAE programs for mechanical design & simulations, MATLAB-Python for developing algorithms

2.80/4.00

PROJECTS

04/2021 – 05/2021
A Sequence Modeling Pipeline with PyTorch for Weather Prediction

Demonstrating a pipeline for training a recurrent network

03/2021 – 07/2021
Momentum Batch Normalization for Deep Learning with Small Batch Size

- Reproducing a paper without a code implementation.
- Implementing the models described in the paper and obtain the acceptable results
- Applying Momentum Batch Normalization method to image classification tasks
- Conducting experiments on CIFAR10 and CIFAR100 datasets

WORK EXPERIENCE

08/2018 – CURRENT – ANKARA, Turkey
DESIGN ENGINEER – ROKETSAN

- Development of **design automation** process for commonly used mechanical components
- Designing **optimization algorithms** and functional models
- Presentation, justification, and reporting of design studies
- Participating in research and development projects

Programs used:
- **MATLAB and Python**: Optimization and Automation Algorithm

01/2018 – 07/2018 – ANKARA, Turkey
MECHANICAL ENGINEER (PART-TIME) – TAI - TURKISH AEROSPACE INDUSTRIES

- Practicing and utilizing CAD program for Flight Control System Design

08/2017 – 09/2017 – Sakarya, Turkey

PRODUCTION TRAINEE – TOYOTA MOTOR MANUFACTURING TURKEY

Observing manufacturing technologies and processes in a well-known automotive company

06/2017 – 07/2017 – Ankara, Turkey
R&D TRAINEE – TAI - TURKISH AEROSPACE INDUSTRIES

Design, implementation, process development of the composite structures used in aircraft applications

LANGUAGE SKILLS

Mother tongue(s): **TURKISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Matlab | Python | Optimization | Data Analysis | Data Science | Deep Learning | Machine Learning | SIEMENS NX

NETWORKS AND MEMBERSHIPS

Memberships

METU IEEE , METU IAESTE

TECHNICAL QUALIFICATIONS

Personal Qualification

Analytical thinking, Systematic problem solving approach, Result-Oriented attitude, Commitment to implement

Communication and interpersonal skills

Effective verbal-writing skills, Good team member, Working / living in harmony with people from different nations and cultures

HOBBIES AND INTERESTS

Hobbies and Interests

Playing Guitar ,Aikido ,Cycling