Irmak Ege

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PERSONAL INFORMATIONS

Date of Birth: 12.02.1994
Address: Street 6134 No:11 Flat:12 Karşıyaka/İzmir
Gender: Male
Marital Status: Single
Military Service: Postponed

EDUCATION

İzmir Institute of Technology — İzmir, Turkey
Master Degree in Mechanical Engineering, GPA: 3.64/4.00 — *February 2019 – Continuing*

Süleyman Demirel University — Isparta, Turkey
Bachelor Degree in Mechanical Engineering, GPA: 2.90/4.00 — *September 2013 – December 2018*

Schmalkalden University of Applied Sciences — Schmalkalden, Germany
Erasmus Exchange Program, Bachelor Degree in Mechanical Engineering — *September 2016 – February 2017*

Hatice Güzelcan Anatolian High School — İzmir, Turkey
Field of Science, High School Diploma, GPA: 62.01/100 — *September 2008 – June 2012*

FIELDS OF RESEARCH

Machine Learning, Deep Learning, Causality in Machine Learning, Optimization, Time Series Analysis.

WORK EXPERIENCE

Compulsory Organization Internship — August 2018 – September 2018
MARTEK Industry — *İzmir, Turkey*

- Examination and reporting of administration and organization scheme of the factory
- Improvement of production line efficiency
- Optimization of design parameters of navigation buoys

Design Engineer — June 2017 – September 2017
SKP Machine and Die — *Manisa, Turkey*

- Die design
- Preparation of die elements for manufacturing
- Optimization of die design parameters

Compulsory Organization Internship — July 2016 – September 2016
CMS Wheel — *İzmir, Turkey*

- Examination and reporting of manufacturing processes
- A mechanism design to improve connection between chuck of a CNC and work pieces
- Layout design of training area for new employee

PROJECTS

Touch Gestures Classification by Deep Learning Methods
Master Thesis — February 2021 – Continuing

Deep Learning with Low Complexity Models on Small Data Sets
CENG 506 Project — February 2021 – June 2021

- Investigation of effect of model complexity and activation functions on classification performance

Investigation of a Variational Auto-encoder Performance on MNIST Data set
EE 546 Project October 2020 – January 2021

- Investigation of the latent space in a Variational Auto-encoder

Analysis of Energy Performance of a Building
CE 571 Project September 2019 – January 2020

- Calculation of the heat load of a building by an Artificial Neural Network that is optimized using Genetic Algorithms

Classification of Vibrations in a Flow Throttle
ME 578 Project March 2019 – June 2019

- Classification of vibrations occurring in a flow throttle by Support Vector Machines

Design of Bird Wing Mechanism | *Graduation Thesis* Eylül 2017 – Haziran 2018

- Design, manufacturing and control of a seagull wing mechanism

Professional Skills

Languages: Turkish (Native Language), English (Professional Working Level), Almanca (Basic Level)
Programming Languages and Libraries: Python, Octave, Pytorch, Tensorflow, Keras, Scikit-Learn, OpenCV
Design Tools: Solidworks, AutoCAD, Rhinoceros 3D
Documentation Tools: LaTeX, MS Office, Juypter Notebook