Personal Information

Kaan Yılmaz

Dr. Mustafa Enver Bey cad. No: 41/10

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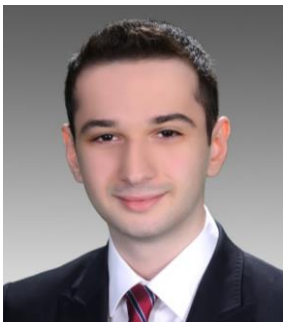
github.com/ylmzkaan



Date of Birth: 13/06/1994 | Nationality: Turkish

Work experience

Turkish Aerospace Industries (TAI) **Design Intern**

June 2016 - July 2016

Worked in the system integration design department of the military training aircraft namely HURKUS. Focused on the integration of sub-systems of the aircraft and its product lifecycle.

Education

M.Sc. Degree: Complex Adaptive Systems (Avancez Scholarship - %75)

Chalmers University of Technology, Gothenburg (2018-2020)

B.S. Degree: Mechanical Engineering (YOK Scholarship - %100)

Yeditepe University, Istanbul (2013 - 2017) CGPA: 3.52/4

Awards and Honors

- High Honor Roll at Yeditepe University
- Highest CGPA in Mechanical Engineering Department at Yeditepe University

Projects

- **Design and Manufacturing of a 4 DOF Robotic Arm**

  Graduation Team Project Advisers: Asst. Prof. Namik Ciblak, Assoc. Prof. Korak K. Safak, Asst. Prof. Nezih Topaloglu – Yeditepe University

  I was responsible for the supervision of the project, programming on Arduino, design of closed loop control system, simulation on SIMULINK and kinematics of the robot. C++, Python and MATLAB were used.

- **Automated Clustering of Radiological Findings on IPF-diagnosed Lung CT**
  Independent Personal Project – Ongoing

  The project involves fully automated preprocessing and clustering of every pixel belonging to lung tissue on any IPF (Idiopathic Pulmonary Fibrosis) diagnosed computed tomography (CT). For the prototyping phase, Python is used.
- **Design of a Model-Based Product Test Case Generator**
  Independent Personal Project – Ongoing

  The aim of the project is to develop a web application that provides product testers a tool which allows them to extract all the possible test paths out of a product model drawn on www.draw.io. Python, HTML, CSS and JavaScript are used.
- **Design of a Maze-Solving Algorithm for a Small Autonomous Car**
  Mechatronics Course Final Project – Yeditepe University
- **Design of a Line-Following Algorithm for a Small Autonomous Car**
  Mechatronics Course Project – Yeditepe University
- **Detection and Measurement of Air Bubbles in Heart's Right Atrium**
  Volunteered Adviser: Asst. Prof. Bahadir Olcay – Yeditepe University

  Due to injection of medicine during surgeries, air bubbles are also injected unintentionally through the veins of patients which their overaccumulation can cause to death. The project aims to detect those air bubbles and measure the total accumulated volume in patient's heart to avoid overaccumulation. Image processing techniques were applied on patient's heart's ultrasonic video using MATLAB.

- **Analysis of Candlestick Formations for Buy-Sell Signal Issuing in Stock Market**
  Independent Personal Project

  The project aims to analyze the candlestick formations' accuracy on predicting changes in mid-term price trend. Candlestick formations and technical analysis tools were combined to predict any upcoming changes in stock price trends. MATLAB was used.

Foreign Languages

	Listening	Reading	Speaking	Writing	Average
English	IELTS 8	IELTS 7.5	IELTS 6	IELTS 6.5	IELTS 7
French	DELF A2	DELF A2	DELF A2	DELF A2	DELF A2

Certificates

- Machine Learning: Hands on Python & R in Data Science issued by Udemy
- Deep Learning: Hands on Artificial Neural Networks by Udemy
- Java Masterclass issued by Udemy
- Solidworks CSWA R3 issued by Dassault Systems

Programming Languages and Computer Skills

- Python (Proficient)
- Java (Beginner)
- C++ (Prior Experience)
- HTML, CSS (Prior Experience)
- JavaScript (Beginner)
- MATLAB (Proficient)

Organizations

- Data Science & Big Data Izmir
- Deep Learning Turkey

Educational Programs and Seminars

- YBK Management Sciences Congress 2015
- YBK Management Sciences Congress 2014
- Biyomut 2015
- ASME SPDC 2015

Interests

- Skiing
- Home cooking
- Playing guitar
- Playing tennis

Personal Details

Driving license: B

References

Name	Organization	Position	Email/Phone
Kemal Oguz Coban	MAN Diesel & Turbo	Head of Promotion Turbocharger	oguz.coban@man.eu
Mehmet Alaeddin Akgun	Yeditepe University	Head of Mechanical Engineering Dept.	+90 216 578 04 39