



# HOUSSEM MENHOUR

**Address:**

Rautatiekatu, 90100 Oulu, Finland

**Email:** [husmen93 \[at\] gmail \[dot\] com](mailto:hussen93[at]gmail[dot]com)**Website:** <https://husmen.xyz>**PERSONAL STATEMENT**

Currently doing a MSc in Computer Science & Engineering at the University of Oulu, with a focus on AI and I would love to combine that with a new professional challenge in a CV/ML related role. Prior to that, I worked for 2+ years as a Computer Vision Engineer at Visiomex where I built industrial quality control and automation systems.

I have a strong passion for R&D work, as well as excellent programming skills, mainly in C/C++, C# and Python which I have been honing for years by now. Being an active member of many student clubs and participation in several competitions allowed me to acquire good teamwork and leadership skills.

**EXPERIENCE****07/2020 – 08/2022: Computer Vision Engineer at Visiomex****Tech stack:** C#/.NET, Python, MVTec Halcon, OpenCV, TensorFlow, PyTorch, Docker

Designed, developed and deployed Computer Vision based quality control solutions for the automotive, home appliances and textile industries.

Lead the R&D efforts for the company's first 3D inspection solution using laser profiling technique and a robotic arm achieving a scanning resolution of <100µm.

Developed our first deep learning solution for anomaly detection (CAE, PaDiM), and deployed it for defect detection in steel sheets.

**06/2018 - 12/2018: Research Intern at Kocaeli University****Tech Stack:** C/C++, Python, PyData stack, OpenCV, TensorFlow, ROS

As an intern at the Image Processing Laboratory, contributed to ongoing research on Computer Vision for Autonomous Driving Vehicles, and Image Classification and Analysis.

**01/2013 - 06/2014: Project Manager at Inelectronics Student Club**

Designed and managed a WordPress website for the club's activities and news.

Organized events with student projects showcase and speakers from partner companies.

**SKILLS****Technical Skills and Field Knowledge****Software Development:**

Python ◆◆◆ | C/C++ ◆◆◆ | C# ◆◆◆

Databases (SQL, NoSQL) ◆◆◆ | Desktop Dev (Qt, WPF) ◆◆◆

Web Dev (Flask, FastAPI, ASP.NET) ◆◆◆

**Computer Vision, Machine Learning and Data Science:**

OpenCV ◆◆◆ | MVTec Halcon ◆◆◆ | PyData Stack ◆◆◆

XGBoost ◆◆◆ | TensorFlow ◆◆◆ | PyTorch ◆◆◆

**Big Data Technologies:**

Kafka ◆◆◆ | Spark ◆◆◆ | ELK Stack ◆◆◆

**Other:** Linux, Git, Docker, ROS, CUDA, MATLAB**Languages****Arabic:** Native**English:** Advanced, TOEFL 111**Turkish:** Advanced, TÖMER C1**French:** Intermediate**Soft Skills**

Great communication and leadership skills

Analytical thinking

Self-motivated

Fast learner

**CERTIFICATES****June 2020** – Data Analyst Nanodegree, [Udacity](#).**February 2019** – Fundamentals of Deep Learning for Computer Vision Certificate, [NVIDIA](#).**February 2019** – OpenZeka MARC Autonomous Vehicle Training Bootcamp.**February 2017** – IEEEExtreme Turkey Competitive Programming Camp.

**EDUCATION** 09/2022 - : Oulu University, MSc in Computer Science and Engineering, AI Track

09/2015 - 06/2020: Kocaeli University, Bachelor of Computer Engineering

Subjects include: ● Algorithm Analysis ● Software Engineering ● Design Patterns ● Neural Networks ● Big Data Analysis ● Distributed Systems ● Embedded Systems ● Control Systems

09/2014 - 06/2015: TÖMER, Turkish Language Preparatory Class

09/2012 - 06/2014: Boumerdes University, Institute of Electrical & Electronics Engineering

Subjects include: ● Circuit Analysis ● Digital systems with VHDL

---

**PUBLICATIONS** H. Menhour, et al, "Searchable Turkish OCR'd historical newspaper collection 1928–1942", J. Inf. Sci., Mar. 2021.  
S. Eken, H. Menhour, et al, "A Reproducible Educational Plan to Teach Mini Autonomous Race Car Programming", *IJEEE*, Feb. 2020.  
S. Eken, H. Menhour, K. Köksal, "DoCA: A Content-based Automatic Classification System for Digital Documents", *IEEE Access*, vol. 7, pp. 97996-98004, Jul. 2019.

---

**ACCOMPLISHMENTS** July 2019 – Engineering Faculty Achievement Award from Kocaeli University.  
November 2019 – 2<sup>nd</sup> place at AçıkHack NLP hackathon.  
August 2018 – 1<sup>st</sup> place at Havelsan's Open Innovation Competition (PARDUS DoSA).  
August 2014 - Fully funded scholarship from Turkey Scholarships Program.  
June 2012 - Baccalaureate Exam with First Class Honours.

---

**SELECT PROJECTS** 09/2019 - 07/2020: ABVAG  
Worked on data stream processing for my graduation project as part of a collaboration between CEVA Logistics and my department, this includes: building a geo data pipeline, stream processing with Apache Kafka and Spark, real-time anomaly detection.  
06/2018 - 09/2019: FourPlusOne  
Lead a team representing Kocaeli University at OpenZeka MARC competition for autonomous driving cars. We built a full system and implemented features for lane tracking, traffic signs detection and localization. Used technologies include Jetson TX2, ROS, TensorFlow, YOLO, OpenCV, Sensor fusion, Kalman filter, PID. <https://github.com/fourplusone41>  
06/2018 - 09/2018: DoCA  
Developed a program for automatic document classification and analysis covering text, images, audio and video file types. This project won 1<sup>st</sup> place at Havelsan Open Innovation Competition (PARDUS DoSA). [https://github.com/husmen/DoCA\\_GUI](https://github.com/husmen/DoCA_GUI)

---

**REFERENCES** *Mr. Mert Safa Özkarakoç*

CTO, Visiomex. 📞: +90 546 431 7601 | mert.ozkarakoc@visiomex.com

*Prof. Dr. Ahmet SAYAR*

Computer Eng Dept, Kocaeli Univ. 📞: +90 262 303 3583 | ahmet.sayar@kocaeli.edu.tr

*Prof. Dr. Süleyman EKEN*

Information Systems Eng Dept, Kocaeli Univ. 📞: +90 262 303 2232 | suleyman.eken@kocaeli.edu.tr

---