

# Selahaddin HONI / 호니

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001honi.github.io

## ABOUT

My research experience in computer vision covers object detection and tracking in long-term videos, metric learning for similarity matching and (person) re-identification. These topics included in my interests but not limited to.

## EDUCATION

### KAIST — Korea Advanced Institute of Science and Technology

Master • Exchange Student

Daejeon, Republic of Korea

Spring, 2022 ~ Present

**Completed Courses:** Deep Learning • Computer Vision • Digital Image Processing

### Istanbul Technical University

Master • Telecommunications Engineering

Istanbul, Turkey

Spring, 2022 ~ Present


### Istanbul Technical University

Bachelor • Electronics & Communications Engineering • GPA: 3.54 / 4.00

Istanbul, Turkey

Spring, 2017 ~ Fall, 2021

**Advisor:** Prof. Bilge Günsel

**Thesis:** Long-term person tracking via deep learning 

**Completed Courses (Grad):** Statistical Signal Processing • Statistical Pattern Analysis & Classif • Digital Video Processing

## EXPERIENCE

### Undergraduate Researcher in Istanbul Technical University

#### Multimedia Signal Processing and Pattern Recognition Research Group

A novel **visual object tracking** inference architecture that employs **re-identification** features for data association was proposed for **long-term videos**. The tracker yielded comparable performance with state-of-the-art in **Visual Object Tracking – Long Term 2021 benchmark** in the scope of person tracking.

Istanbul, Turkey

August, 2021 ~ Present

### Teaching Assistant in Istanbul Technical University

#### Machine Learning for Signal Processing

He assisted an undergraduate course focuses on fundamental **machine learning algorithms**.

Istanbul, Turkey

September ~ December, 2021

### Intern in TUBITAK BILGEM (Sci. & Tech. Research Council of Türkiye)

#### Communication & Signal Processing Lab.

An end-to-end communication channel for a simplified control model was designed on GNU Radio environment. Physical, data link, network and transport layers were constructed and basic modulations were implemented on LimeSDR hardware. At the end, designed communication system was demonstrated to the president of the institute in the final presentation.

Kocaeli, Turkey

July ~ September, 2020

### Intern in HAVELSAN Inc.

#### Big Data & Artificial Intelligence Section

An introduction project to computer vision which is **visual classification** of static hand figures was performed. **Custom dataset** was generated to train the model and application was supported by a **real-time interface**. Then, it was evolved into a touchless design for automats with a motivation of **innovative ideas competition**; awarded with 3<sup>rd</sup> prize after it is presented to the management team of the company.

Ankara, Turkey

May ~ June, 2020

### Intern in BAYKAR Technologies

#### Control Simulation & Embedded Software Dept.

A platform for translation between embedded C and C# languages has been coded. The project having web interface has deployed on the department server to serve to colleagues.

Istanbul, Turkey

June ~ September, 2019

## HONORS & AWARDS

2021 • National Academic Personnel and Graduate Education Exam (Quantitative) • 99<sup>th</sup> success percentile

2016 • National Higher Education Examination Undergraduate Placement Exam • 99.7<sup>th</sup> success percentile