

# Hüseyin Duman CV

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## Work Experience

**June 2021 – Present**

**TRACTUS**

**Data Scientist**

- Data preprocessing, visualization and modeling (ML and DNN) for tabular data by Python.
- Data preparation and model development (CNN) for computer vision project.

**August 2020 –April 2021**

**ROKETSAN**

**Platform Interface Design Engineer**

- Design and implementation of 1553 communication emulator and interface software by LabVIEW.
- Design and implementation of 1553 communication analysis software by Python.
- Requirement definition and operational concept design for multiple ejection rack system.
- Plan, organize and conduct tests for multiple ejection rack system.

**December 2016 – August 2020**

**ROKETSAN**

**Data Acquisition and Evaluation Engineer**

- Design and implementation of data visualization and analysis software for several complex systems projects by Python, LabVIEW and MATLAB.
- Requirement specification and design of telemetry systems for various projects.
- Plan, organize and conduct tests for telemetry systems.
- Perform Design of Experiment (DoE) project to understand effects of different noise sources on telemetry communication.
- Requirement definition and operational concept design of a data recorder system for a marine project.
- Lead a team which performs electronic and mechanical design of airborne telemetry receiver for TUBITAK funded project.

**April 2013 – December 2016**

**ROKETSAN**

**Hardware in the Loop Tests Engineer**

- Algorithm design and implementation of infrared scene generation system by MATLAB.
- Design, implementation and verification of several targets for infrared scene generation system of a hardware in the loop system.
- Harness design for an infrared scene projection system.

**February 2013 – April 2013**

**MİLSOFT**

**Systems Engineer**

- Systems engineer in the data link group.
- Requirement definition for a data link project.

**June 2010 – February 2013**

**UNAM / Bilkent  
University**

**Research Assistant**

- MSc student and research assistant in a photonics - material science research group.

**October 2009 – June 2010**

**Karel Electronics**

**Part-time Engineer**

- Software developer in a VoIP PBX development team using Java and C.
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## Education

**M.S.:** (2010-2013) Material Science and Nanotechnology / Bilkent University (3.80/4.00)

**B.S.:** (2005-2010) Electrical and Electronics Engineering / Bilkent University (3.43/4.00)

**High School:** (2001–2005) Eskişehir Science High School (5.00/5.00)

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## Computer Skills

Python, MATLAB, LabVIEW, SQL, Jupyter Notebook, SPSS, Minitab, Java, C.

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## Language

**English:** Full Professional Efficiency

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## Continuing Education

**Deep Learning Specialization** by deeplearning.ai

<https://coursera.org/share/0e2a79964d1eaae7fe70a888edb45e0f>

**Architecture and Systems Engineering: Models and Methods to Manage Complex Systems** by MIT xPRO

<https://xpro.mit.edu/certificate/program/fbcd4539-9c74-43e7-85d2-9ac5bfe1f30c/>

**Kaggle** courses, data analysis and competition contributions.

<https://www.kaggle.com/huseyinduman>

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## Awards, Scholarships, Achievements

2012 Scholarship by TÜBİTAK (Scientific and Technological Research Council of Turkey) for International Scientific Conference Participation

2010-2013 Full Scholarship by Bilkent University for Graduate Studies

2010-2012 Scholarship by TÜBİTAK (Scientific and Technological Research Council of Turkey) for Graduate Studies

2005-2010 Scholarship by Zorlu Foundation for Undergraduate Studies

2005-2010 Full Scholarship by Bilkent University for Undergraduate Studies

2005 Ranked 195<sup>th</sup> among 1.5 million attendees in University Entrance Exam (ÖSS)

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## Presentations and Publications

**H. Duman**, “Türk Savunma Sanayiinde Nanoteknoloji Edinim Politikası Önerisi”, **Yeni Türkiye, Bilim ve Teknoloji Özel Sayısı**, s.565, Temmuz-Aralık 2016 (in Turkish)

**H. Duman**, “Plasmonic Nanoantennas for Nonlinear Optical Applications: Design, Fabrication and Characterization”, **LAP LAMBERT Academic Publishing**, 2016

A. Çekinmez, **H. Duman**, “Kızılötesi Arazi Modellemesi ve Ölçüm Sonuçları ile Karşılaştırılarak Doğrulanması”, **USMOS 2015**, Ankara, 11-12 November, 2015 (in Turkish)

**H. Duman**, B. Daglar, M. C. Kılınç, T. Khudiyev, M. Bayındır, “New Frequency Generation with Plasmonic Nanoantenna on Highly Nonlinear As<sub>2</sub>Se<sub>3</sub> glass substrate”, **2012 MRS Spring Meeting**, San Francisco, California, USA, April 9 - 13, 2012

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## Volunteer Experiences

2015 -2018 Volunteer Mentor to high school students for personal and academic development. (Özel Sektör Gönüllüleri Derneği)