

# Talha Karadeniz

## WORK EXPERIENCE

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2006 – 2011

Part-time Researcher at TUBITAK UZAY (Space Technologies Research Institute),  
Video and Audio Processing Group

- Video annotation.
- GUI development for:
  - image matching experiments.
  - archive analysis.
- Research on:
  - local image descriptors.
  - vector set kernels.
- Coding of KAVTAN [a concept detection project with broadcast media input] dimension reduction module.

2012 – 2013

Software Engineer at Simtek,

- Coding of an Augmented Reality system with automatic object categorization support.
- Design and implementation of a people counting system.

2014 – 2016

Contract OS X Developer,  
Developer and Robotics Tools

- Coding of:
  - A utility for command line usage archiving: Cmd Schemes.
  - A C editor for systems programming: Systematics.
  - A code snippet manager for Bash, C, C++, Objective-C, Python and TeX: Codemarker.
  - A GUI wrap for noweb: NwControl.
  - A manual page editor: Manual Writer.
  - An inverse kinematics scripting engine: Linkages.

2015 – 2016

Part-time Researcher at Cankaya University,  
Engineering for a Surgical Neuronavigation system (supported by Tubitak).

- Know-how about introductory OptiTrack Motive SDK.
- Coding of a trajectory analysis library: NNLib.
- An article on trajectory classification.

🏠 Yavuz Selim Mh., Eryaman/Ankara  
📞 +90 535 508 73 84  
✉ talhakaradeniz@gmail.com

## SCHOLARSHIP

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### Bachelor of Science

MATHEMATICS

*Middle East Technical University*

### Master of Science

COMPUTER ENGINEERING

*Cankaya University*

## CONTESTS

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2012 **Ranked 4th**

*International Conference on Frontiers  
in Handwriting Recognition, Writer Identification*

## COMPUTER

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Basic Knowledge	ARM Assembly, FMOD Designer, HTML, GDB, nmap, OllyDbg, SVN, Valgrind
Intermediate Knowledge	C, C++, Bash, MATLAB, Objective-C, Unix

## LINGUISTIC

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ARTICLE Talha Karadeniz, Ersin Elbasi,  
“Improvement of DWT-SVD with curve fitting  
and robust regression”,  
Elektronika ir Electrotechnika, 2016.

Talha Karadeniz, Hakan Maras,  
“Covariance features for trajectory analysis”,  
IEEE SIU, 2016.

Medeni Soysal, A. Aydin Alatan  
and Talha Karadeniz, “Joint utilization  
of appearance and geometry for  
determining correspondences”,  
IEEE International Symposium on  
Computer and Information Sciences, 2009.

STORY Two science-fiction tales,  
published in *Gameshow* – 2001

THESIS Writer Identification Based on  
Covariance Features,  
to be defended, 2016.