

# Caner Odabaş

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## CONTACT

### INFORMATION

Electrical & Electronics Engineering Department  
Bilkent University  
06800 Bilkent, Ankara, Turkey

cellphone: +90 505 863 1619  
e-mail: canero@ee.bilkent.edu.tr  
web site: [www.ee.bilkent.edu.tr/~canero](http://www.ee.bilkent.edu.tr/~canero)



## INTERESTED FIELDS

Linear & Nonlinear Control Systems, Optimal Control, Neural Networks, Analysis and Control of mechanical systems, VHDL

## EDUCATION

**PhD in Electrical & Electronics Engineering** Since 2014

Bilkent University, Ankara, Turkey  
Major: Systems & Control Theory  
Supervisor: Prof. Ömer Morgül

**M. Sc. in Electrical & Electronics Engineering** 2012 – 2014

Bilkent University, Ankara, Turkey  
Major: Systems & Control Theory, GPA: 3.11/4  
Thesis Title: “*Observer Based Friction Cancellation in Mechanical Systems*”  
Supervisor: Prof. Ömer Morgül

**B. Sc. in Electrical & Electronics Engineering** 2007 – 2012

Bilkent University, Ankara, Turkey GPA: 3.08/4 (Honour)  
Senior Project: “*Underwater Acoustic Telephone Transmitter Design on FPGA*”

**B. Sc. in Economics** Since 2012

Anadolu University, Eskişehir, Turkey GPA: 3.24/4 (Honour)

**High School** in Physics & Math, 2003 – 2007

Çankaya Milli Piyango Anatolian High School, Ankara, Turkey GPA: 96.36/100

## WORK

### EXPERIENCE

**Ogem Inc**, METU Teknokent, Ankara, Turkey Summer 2011

*Summer Intern*

- Experienced in microcontroller programming using Code Composer Studio and MSP series microcontrollers developed by Texas Instruments.

**Aselsan Inc. SST-ABT**, Macunköy, Ankara, Turkey Summer 2010

*Summer Intern*

- Experienced in FPGA programming. Using VHDL, various project applications developed for design of military usage computers.

## RESEARCH

### EXPERIENCE

**Bilkent University, Research Assistant** Since 2012

**Control Theory & Robotic Locomotion Group**

- Analysis and control of mechanical systems

**Bilkent University & Aselsan Ic., Research Assistant** 2012 – 2013

Project: “Development of Servo Control Algorithms”

- Observer Design
- Time Delayed Systems
- Hierarchical Control

PUBLICATIONS	(1) <b>C. Odabaş</b> , Ö. Morgül, “Observer Based Friction Cancellation in Mechanical Systems”, <i>14<sup>th</sup> International Conference on Control, Automation and Systems (ICCAS)</i> , 22-25 October 2014, Kintex, Korea				
	(2) H. E. Orhon, <b>C. Odabaş</b> , I. Uyanik, Ö. Morgül, U. Saranlı “Extending The Lossy Spring-Loaded Inverted Pendulum Model with a Slider-Crank Mechanism”, <i>accepted to 17<sup>th</sup> International Conference on Advanced Robotics (ICAR)</i> , 27-31 July 2015, Istanbul, Turkey				
TEACHING EXPERIENCES	<b>Bilkent University</b> , <i>Teaching Assistant</i>				
	<ul style="list-style-type: none"> <li>• Circuit Theory <span style="float: right;">Spring, Summer 2013, Fall, Spring 2014</span></li> <li>• Introduction to Digital Circuit Design <span style="float: right;">Fall 2012, 2011</span></li> <li>• Feedback Control Systems <span style="float: right;">Summer 2011, Fall 2015</span></li> <li>• Microprocessor <span style="float: right;">Spring 2012</span></li> </ul>				
HONOURS & AWARDS	<table style="width: 100%; border: none;"> <tr> <td style="width: 80%;">Bilkent University M.Sc. Degree Scholarship (tuition waiver+monthly stipend)</td> <td style="text-align: right;">2012 – 2014</td> </tr> <tr> <td>Çankaya Milli Piyango Anatolian High School Dignity Certificate</td> <td style="text-align: right;">2007</td> </tr> </table>	Bilkent University M.Sc. Degree Scholarship (tuition waiver+monthly stipend)	2012 – 2014	Çankaya Milli Piyango Anatolian High School Dignity Certificate	2007
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Çankaya Milli Piyango Anatolian High School Dignity Certificate	2007				
EXTRA CURRICULAR ACTIVITIES	<ul style="list-style-type: none"> <li>• IEEE Student Member <span style="float: right;">Since 2008</span></li> <li>• Electrical and Electronics Eng. Dept., System Manager <span style="float: right;">Since 2013</span></li> <li>• 1. Sanayi Odaklı Bitirme Projeleri Fuarı, Organizing Committee Member <span style="float: right;">2015</span></li> <li>• Bilkent Graduate Research Conference (GRC’15), Vice Chair <span style="float: right;">2015</span></li> <li>• Bilkent University-Fraunhofer IIS joint Symposium, Organizing Committee Member <i>German-Turkish Year of Research, Education and Innovation</i> <span style="float: right;">2014</span></li> <li>• Bilkent University Information Office for Prospective Students, Mentor <span style="float: right;">2010 – 2014</span></li> <li>• Bilkent IEEE Student Branch Executive Committee Vice-Chair <span style="float: right;">2010 – 2011</span></li> </ul>				
COMPUTER SKILLS	Java, VHDL, x86/x51 Assembly, AMPL, L <sup>A</sup> T <sub>E</sub> X 2 <sub>ε</sub> , MATLAB <sup>®</sup> & Simulink, Orcad, Proteus, LT Spice.				
LANGUAGES	Turkish (Native), English (Fluent), German (Basic)				
HOBBIES	History, Watching documentaries, Travelling, Playing chess				

#### REFERENCES

##### **Ömer Morgül**

*Professor, Thesis Supervisor*

Electrical and Electronics Eng. Dept.  
Bilkent University  
Tel: +90 312 266 4342  
e-mail: morgul@ee.bilkent.edu.tr

##### **Orhan Aytür**

*Professor, Vice Rector for Student Affairs*

Electrical and Electronics Eng. Dept.  
Bilkent University  
Tel: +90 312 290 2748  
e-mail: aytur@ee.bilkent.edu.tr

##### **Orhan Arıkan**

*Professor, Department Chair*

Electrical and Electronics Eng. Dept.  
Bilkent University  
Tel: +90 312 266 1219-1257  
e-mail: oarikan@ee.bilkent.edu.tr

##### **Yeşim Erdoğan**

*University-Industry Collaboration Coordinator*

Bilkent Technology Transfer Office  
Bilkent University  
Tel: +90 312 290 8017  
e-mail: yesime@bilkent.edu.tr