

# Orhan Ayit

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## Professional Experience

2013– 2015	<b>Teaching assistant at Sabancı University</b> <ul style="list-style-type: none"><li>• Me 308: Industrial Control, Instructor: Assoc. Prof. Kemalettin Erbatur (between Sept., 2014 – June, 2015)</li><li>• Ens 206: Systems Modeling and Control, Instructor: Assoc. Prof. Ahmet Onat (between Feb., 2014 – June, 2014)</li><li>• Me 407: Embedded Systems, Instructor: Assoc. Prof. Ahmet Onat (between Sept., 2013 – Feb., 2014)</li></ul>
2012	<b>Intern at Klimasan Klima San. Tic. A.Ş.</b> <p>The 8-week internship was performed in maintenance and repair department, production department and research and development department.</p>
2011	<b>Intern at İzmir Hidropar Ltd. Şti.</b> <p>The 4-week internship was performed in production department.</p>

## Education

2016–	<b>Phd in Mechanical Engineering, İzmir Institute of Technology, İzmir.</b>
2013–2015	MSc in Mechatronic Engineering, Sabancı University, İstanbul.
2007–2013	BSc in Mechatronic Engineering, Sabancı University, İstanbul.
2003–2007	High school in İzmir Anadolu Lisesi, İzmir.

## Languages

Turkish	Mother tongue
<b>English</b>	<b>Fluent</b>

## Job-related skills

Programming languages	C, C++, C#, VHDL, Ladder logic
Programs	MS Office, Latex, Microsoft Visual Studio, Dev CPP, Simatic S7, dSpace, Matlab, Simulink, Solidworks, Comsol, ModelSim / Xilinx

## Publications

- 2015 | Iyad Hashlamon, M. Mert Gülhan, **Orhan Ayit**, Kemalettin Erbatur. ‘A novel method for slip prediction of walking biped robots.’ *Robotica*.
- 2015 | Ö. Kemal Adak, **Orhan Ayit**, M. Mert Gülhan, Kemalettin Erbatur. ‘Genetic Tuning of a Central Pattern Generator for Quadruped Locomotion.’ *International Electrical and Electronic Engineering and Technologies Conference*.
- 2013 | Eray Baran, **Orhan Ayit**, Victor B. Santiago, Sergio Lopez-Doriga, and Asif Sabanovic. ‘A self optimizing autofocusing scheme for microscope integrated visual inspection systems.’ *Proceedings of the 39th International Conference on Industrial Electronics (IECON)*.

## Awards and Scholarships

### Awards

- Sabancı University– Dean list: High honour– Fall 2012–2013
- Sabancı University– Dean list: High honour– Spring 2011–2012
- Sabancı University– Dean list: Honour– Fall 2011–2012
- Sabancı University– Dean list: High honour– Spring 2009–2010
- Sabancı University– Dean list: Honour– Fall 2009–2010

### Scholarship

- TUBITAK– Project Scholarship
- Sabancı University– Full Tuition Fee Exemption Scholarship

## Prominent Projects

- 2015 | **Master Thesis: ‘Contact Modeling as Applied to the Dynamic Simulation of Legged Robots’**  
In this thesis, a quadruped robot was simulated by using two distinct methods which are penalty based method and constraint based method (also called as exact contact model in the thesis). Also, advantages and drawbacks of the methods were presented by simulating different scenarios.
- 2013 | **Graduation Project: ‘Set-Up and Experimentation of a Specialized Network Structure for Remotely Actuated Robotic Surgery Systems’**  
A specialized network interface is set up and experimentally verified to be used in the research of remotely controlled robots over network.
- 2008-2009 | **Civic Involvement Project**  
Aim of this project was traveling people who lived in nursing home regularly, sharing and solving their issues and arranging social activities for them.

## Research Interests

- Legged robotics
- Teleoperation system
- Motion control system

## Activities and Interests

- Theatre
- Football
- Basketball
- Turkish classical music