

Selim Ozel

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Selim Ozel is a **robotics researcher and mechatronics engineer** with strong programming skills. He worked on robotic projects during graduate education for two years, he also worked as a teaching assistant for four semesters. His future career goal is to get a PhD degree at an internationally recognized institution in order to work as an academician. His **research interests** include robotics, humanoid robots, machine learning, and computer vision.

Education

Sabanci University	M.S. in Mechatronics Engineering	3.67 / 4.00	Ongoing
Sabanci University	B.S. in Mechatronics Engineering	3.36 / 4.00	2011
Uskudar Anatolian High School	Graduated as a Natural Sciences Student		2007
Thesis Advisor	Assoc. Prof. Kemalettin Erbatur		

Research Experience

Graduate Research Assistant / September 2011 – Present

*Mechatronics Engineering Program of Faculty of Engineering and Natural Sciences
Sabanci University, Istanbul, Turkey*

- Adapted preview control of ZMP (Zero Moment Point) to a humanoid robot platform.
- Created a simulation platform on Matlab which estimates mental states of a human agent, and a communication interface using C++ and socket programming in order to transmit data between vision and control computers of the humanoid robot.
- Working on mental state inference of human agents using visual control parameters for my M.S. Thesis.

Undergraduate Research Assistant September / September 2010 – June 2011

*Mechatronics Engineering Program of Faculty of Engineering and Natural Sciences
Sabanci University, Istanbul, Turkey*

- Simulated preview control of ZMP in order to create Omni-Directional Walking Trajectory, using humanoid robot's simulation environment (B.S. graduation project).
- Developed stable gait patterns for a quadruped robot simulation using ZMP stability criterion, results are published.

Computer Skills

Languages : C++, C#, Java, Assembly
Programs : Matlab and Simulink module, Solidworks, Autolev, dSpace Control Desk, MPLAB

Conference Presentations

[1] T. Akbas, S. E. Eskimez, S. Ozel, O. K. Adak, K. C. Fidan and K. Erbatur "Zero Moment Point Based Pace Reference Generation for Quadruped Robots via Preview Control", The 12th International Workshop on Advanced Motion Control, March 25-27, 2012, Sarajevo, Bosnia and Herzegovina, Submitted and Published

[2] K. C. Fidan, T. Akbas, S. E. Eskimez, S. Ozel, O. K. Adak, O. Drama, M. Konukoglu, G. Yilmaz, K. Erbatur, "Dört Bacaklı Robotlar için Önizlemeli Kontrol ile Sıfır Moment Noktası Tabanlı Yürüme Yörüngesi Sentezi-ZMP Based Locomotion Trajectory Synthesis for Quadruped Robots with Preview Control," Turkish Automatic Control Conference, September 2011, Izmir, Turkey, (In Turkish), Submitted and Published

Work Experience

Graduate Teaching Assistant at Sabanci University / Istanbul, Turkey / Fall 2011; Spring, Fall 2012

- Guided and graded ENS 209 - Computer Aided Drafting and Solid Modeling for three semesters

Undergraduate Teaching Assistant at Sabanci University / Istanbul, Turkey / Spring 2011

- Guided ME 308 - Industrial Control Systems students for one semester

Project Management and Production Intern at Animazoo / Brighton, UK / Summer 2010

- Built, tested and repaired motion capture suits

Scholarships & Honors

Full Scholarship at Sabanci University / 2012-2013

- Exemption from tuition fee, monthly stipend and dormitory support

Tuition Fee Exemption Scholarship at Sabanci University / 2011-2012

- Exemption from tuition fee

Sakip Sabanci Encouragement Scholarship at Sabanci University / 2008 – 2011

- Exemption from tuition fee

Dean's Honor List at Sabanci University / 2008 – 2011

- Granted to successful students holding a GPA of at least 3.00/4.00

Dean's High Honor List at Sabanci University / 2007 – 2008

- Granted to highly successful students holding a GPA of at least 3.50/4.00

Language Skills

- Native in Turkish
- Advanced in English (109/120 IBT score)
- Basic in German

Extracurricular Activities

Rugby player / 2008 - 2012

Member of a sailing team / 2012

Peer tutor for freshmen / 2008