
CONTACT INFORMATION	Department of Electrical Engineering Linköping University, 581 83 Linköping Sweden	sertac.erdemir@liu.se +46 700 29 60 06 http://users.isy.liu.se/en/rt/serer41/ www.ee.bilkent.edu.tr/~erdemir/
RESEARCH INTERESTS	Signal Processing, Sensor Fusion, Estimation Algorithms, Switching Networks, Computer Aided Design	
CURRENT RESEARCH	Investigating Novel Radio Supported Navigation Algorithms Within this work, I study the integration of GNSS and inertial navigation with ground radio support to utilize existing hardware and software to develop a low-cost navigation system that works at high latitudes, which further would allow us to guide the UAV safely home, even in the case the GNSS is unavailable Time Difference Of Arrival Algorithms Investigation of algorithms for space-time processing of data to determine the physical position	
EDUCATION	Bilkent University , Ankara, Turkey M.Sc. in Electrical & Electronics Engineering 2013 - 2015 Thesis: "Noise Analysis of Flexing Crossbars Under the Victim-Aggressor Model" Ankara University , Ankara, Turkey B.Sc. , Electrical & Electronics Engineering 2008 - 2013 Thesis: "Analysis and Design of a Triple-Band Modern GPS Antenna"	
WORK EXPERIENCE	MarineUAS, Innovative Network on Autonomous Unmanned Aerial Systems for Marine and Coastal Monitoring 2015 - <i>Early Stage Researcher</i> Linköping, Sweden ROKETSAN Missile Industries, Inc 2013 - <i>Navigation Algorithms Design Engineer</i> Ankara, Turkey <i>System Design and Test Engineer</i>	
RESEARCH PUBLICATIONS	- S. Erdemir , A. Yavuz Oruç, "Noise Analysis Of On-Chip Flexing Crossbars With A Geometric Model", 2016 IEEE International Symposium on Electromagnetic Compatibility , July 2016. - S. Erdemir , A. E. Yılmaz, "L1 Frekansında Çalışan E-Şekilli Mikroşerit GPS Anteni Tasarımı (Design of an E-Shaped Microstrip GPS Antenna Operating at L1 Frequency)", Uludağ University Journal of the Faculty of Engineering and Architecture , vol. 19, no. 1, pp. 15-26, 2014. (National) - S. Erdemir , A. E. Yılmaz, "L1, L2 ve L5 Bantlarında Çalışan Üç Katmanlı Mikroşerit GPS Anteni Tasarımı", ASELSAN Communication and Information Technologies Workshop , Ankara, 16-18 Oct. 2013. (National)	