

CONTACT INFORMATION	415. Cadde Yargıtay Lojmanları 54/B No:4 Birlik Mahallesi Çankaya, Ankara	E-mail: cglr.tunc@gmail.com E-mail: caglar.tunc@bilkent.edu.tr Mobile: +90 (555) 596 44 74 Phone: +90 (312) 495 32 42 Web: http://kilyos.ee.bilkent.edu.tr/~caglar
PERSONAL INFORMATION	Date of Birth: 16.12.1991 Place of Birth: Ankara, TURKEY Sex: Male Marital Status: Single	
EDUCATION	Bilkent University , Ankara, Turkey	
	M.S., Electrical and Electronics Engineering,	September 2013 - Present
	<ul style="list-style-type: none"> ▪ CGPA: 3.84 ▪ Telecommunication Networks Design & Analysis ▪ TUBITAK Graduate Scholarship 	
	B.S., Electrical and Electronics Engineering,	August 2009 - June 2013
	<ul style="list-style-type: none"> ▪ CGPA: 3.77 ▪ Comprehensive Scholarship by Placement Examination (OYS) ▪ High Honor Student (2009-2010 Fall, 2009-2010 Spring, 2010-2011 Fall, 2010-2011 Spring, 2011-2012 Fall, 2012-2013 Fall, 2012-2013 Spring) ▪ Honor Student (2011-2012 Spring) 	
	Ankara Atatürk Anatolian High School , Beşevler, Ankara, Turkey	
	Science & Mathematics , September 2005 - June 2009	92.00 (100 scale)
	TED Ankara Private College , 1998-2005	
PROFESSIONAL EXPERIENCE	Bilkent University , Ankara, Turkey	
	Research Assistant	Fall 2013 - Present
	Graduate Teaching Assistant	Fall 2013 - Present
	<ul style="list-style-type: none"> ▪ Telecommunications I, EEE431, 4th year Undergraduate Elective Course ▪ Microprocessors, EEE212, 2nd year Undergraduate Course <ul style="list-style-type: none"> ▪ Project & Laboratory Coordinator Assistant 	
	ASELSAN , Ankara, Turkey	
	Part-Time System Engineer	January 2013, May 2013
	<ul style="list-style-type: none"> ▪ Design of Wireless Communication Nodes and Networks for Police and Gendarmerie 	
	Intern	August-September 2012
	<ul style="list-style-type: none"> ▪ RF Filter Design 	
	NANOTAM - Nanotechnology & Research Center , Ankara, Turkey	
	Intern	June-July 2012
	<ul style="list-style-type: none"> ▪ Research on nanomaterials & nano-optic devices ▪ FDTD-Lumerical simulations ▪ Design of solar cells with nanoparticles 	

- E-beam lithography, photolithography, waveguide fabrication

METEKSAN Defense Industry, Ankara, Turkey

Intern

June-July 2011

- RF attenuation/gain calculations for cascaded systems in **MATLAB**
- FPGA Design using **VHDL**

JOURNAL &
CONFERENCE
PUBLICATIONS

- Tunc, C., Akar N. "Mapping Time-varying IP Traffic to Flexible Optical Paths in Flexgrid Optical Networks." *Photonic Network Communications* (2014). Web. <<http://link.springer.com/article/10.1007/s11107-014-0467-x>>.
- Tunc, C., Akar, N. "Efficient Transport of Time-varying IP Traffic in Flexi-grid Optical Networks." *Signal Processing and Communications Applications Conference (SIU), 2014 22nd (2014): 1555-558. IEEE Explore. Web.*

UNDER REVIEW

- Tunc, C., Akar, N. "Fixed-point Analysis of a Network of Routers with Persistent UDP and TCP Flows and Class-based Weighted Fair Queuing." submitted to **Telecommunication Systems**, May 2015.

WORKING PAPERS

- Tunc, C., Akar, N. "Finite-Horizon Battery Outage Probability in Energy Harvesting Wireless Sensor Nodes." to be submitted to **IEEE Journal on Selected Areas in Communications**.
- Akar, N., Tunc, C., Gaertner, M. A., Erden, F. "Performance of Shortest Cumulative Access Time First (SCATF) Disk Scheduling Algorithms." to be submitted to **Turkish Journal of Electrical Engineering and Computer Sciences**.
- Tunc, C. "Fluid Queue-Based Analysis of Wireless Sensor Nodes." **MS Thesis**, in progress.

SELECTED
PROJECTS

Analysis and Simulation of Share Per Link (SPL) Optical Switches Spring, 2014
Research project supervised by Prof. Ezhan Karasan. In this term project, the analysis of SPL optical switching system based on a continuous-time Markov chain (CTMC) model is implemented. Furthermore, the accuracy of the analytical model is simulated in **MATLAB** environment.

Robandroid - Security Robot Spring, 2013 - Spring, 2014

As the content of the elective senior project, a company, Inviso, which is formed by 6 senior students from 3 different departments was established. First product of this company, Robandroid, is a security robot which protects a building autonomously or by online controlling. Hardware design is done first on breadboard and PCB of the designs were printed.

Inviso became third place among 470 projects in the TUSIAD's 'Bu Gençlikte İş Var' Competition and won the 'Honourable Mention Award'.

Simulator for 802.16m Downlink Scheduler Spring, 2013

Research project supervised by Prof. Nail Akar. In this project, a simulator for various downlink schedulers in a 802.16m broadband wireless system were built in **MATLAB**. A number of schedulers including completely opportunistic, round-robin, airtime fair and proportional fair are tested using this simulator.

LANGUAGES

Turkish: Native
English: Fluent
Spanish: Moderate
German: Beginner

TEST SCORES	<ul style="list-style-type: none">▪ TOEFL IBT Reading:30 Listening:30 Speaking:24 Writing:28▪ GRE Revised General Test Verbal:151(50%) Quantitative:170(98%) Analytical Writing:4.5(80%)
COMPUTER SKILLS	<ul style="list-style-type: none">▪ MATLAB/Simulink(advanced)▪ Java(advanced)▪ C(advanced)▪ VHDL(advanced)▪ Assembly(advanced)▪ Lumerical-FDTD(moderate)▪ Microwave Office(moderate)▪ Proteus(moderate)▪ Microsoft Office▪ L^AT_EX
AWARDS & ACHIEVEMENTS	<ul style="list-style-type: none">▪ TUBITAK Graduate Scholarship▪ Bilkent University Master of Science Study Full Scholarship▪ Bilkent University High Honor Student (2009-2010 Fall, 2009-2010 Spring, 2010-2011 Fall, 2010-2011 Spring, 2011-2012 Fall, 2012-2013 Fall, 2012-2013 Spring)▪ Bilkent University Honor Student (20011-2012 Spring)▪ TUSIAD's 'Bu Gençlikte İş Var' Honourable Mention Award▪ Comprehensive Scholarship by University Placement Examination (OYS)▪ Ranked 420th in University Entrance Exam among 1.4 million candidates
EXTRA- CURRICULAR ACTIVITIES	Playing bass guitar, listening to music, practicing foreign languages, doing & watching sports, watching movies