

METE RODOPER

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Objective	A position in application development area, where I can utilize my software engineering, programming, analytical thinking and team working abilities.
Education	M.Sc., Electrical and Computer Engineering, expected January 2010 Rutgers, The State University of New Jersey, NJ, USA • Communications Engineering Track • Cumulative GPA 3.75 / 4.00 • Thesis Topic: Design and Evaluation of Security Architecture Approaches for Next Generation Wireless Networks including WiMAX B.Sc., Telecommunications Engineering, June 2007 Sabanci University, Istanbul / TURKEY • Cumulative GPA 3.45 / 4.00 • Graduation project: Wireless Auto Mesh Able Networking in coordination with Airties Wireless Networks
Work Experience	Graduate Assistant, September 2007 – Present WINLAB, Wireless Information Network Laboratory, Rutgers, New Jersey / USA • Examined Delay Tolerant Networks and implemented Mobility Models using Perl for ORBIT on Linux Operating System. • Surveyed different security techniques and proposed new message exchange protocols for 3G and 4G wireless communication standards. Intern, May 2009 – September 2009 Telcordia, Applied Research, New Jersey / USA • Coded prediction algorithms (such as EWMA, Kalman) for channel power quality measurement using JAVA to be used for SHA routing algorithm. • Developed a fast re-routing algorithm based on PIM for multicast data broadcast using C++ on XORP Router platform. • Set up indoor and outdoor real-time mobile testbeds for testing handover protocols and routing algorithms using 12 WiFi cards and 6 Linux machines. Intern, June – October 2008 Motorola, Inc., CDMA System Test Engineering Dept. New Jersey / USA • Examined test failures and calculated channel power failure reasons mathematically and presented solutions to both Motorola and 3rd party test software developers. • Scripted Test Automation for CDMA2000 Standard Test Plans in Visual Basic. • Coded Test Status programs to ease, regulate testing process and increase lab efficiency. • Performed Parametric PHY Layer tests on mobile phones. Intern, March - May 2007 Turkcell Communication Services, Istanbul / TURKEY • Trained about GSM Service operation basics and hardware working principals. • Received seminars about corporate company operations and management.

Intern, June - August 2006

AirTies Wireless Networks, Istanbul / TURKEY

- Built Wireless Mesh Networks and streamed VoIP packets and video over the AP's using C.
- Researched on ad-hoc networks, link formation, routing protocols and interference aware routing metrics.
- Researched on QoS improvements on MAC layer for further developments for wireless mesh networks.

Undergraduate Research Assistant, June - August 2005

Vision and Pattern Analysis Lab, Istanbul / TURKEY

- Worked on Decision Fusion for Driver Recognition, funded by international automobile companies, Ford and Renault.
- Built an extended driver database and processed their faces one-by-one with the help of OpenCV using C++.

Publications Rodoper, M., Trappe, W., Jung, E., An IBC and Certificate Based Hybrid Approach to WiMAX Security, *Journal of Communication and Networks*, December 2009.

Erdogan, H., Ozyagci, A. N., Eskil, T., Rodoper, M., Ercil, A., Abut, H., Experiments on Decision Fusion for Driver Recognition, *Biennial on DSP for in-Vehicle and Mobile Systems*, Sesimbra, Portugal, September 2-3, 2005. Published in the proceedings of the DSP for in-Vehicle and Mobile Systems conference.

Course Projects **Financial Programming, Fall 2008**

- A portfolio management system which manages a collection of stocks and measures the portfolio performance by updating the data online, using C++ and Perl.

Software Engineering, Fall 2008

- GPS and WiFi based routing for Visually Impaired for Nokia phones using J2EE, as a team of 6.

Communication Networks 2: Network Design, Spring 2008

- Implementation of various ARQ protocols and RIP and OSPF routing algorithms using C++ on Linux, as a team of 4. Also, we learned application layer protocols such as DNS, SNMP.

Skills **Languages:** Turkish (native), English (advanced), and German (basic)

Programming Languages: C++, C, Java, Perl, Assembly (Intel)

Operation Systems: Windows, Linux

Software and Tools: MS Office (Word, Excel, PowerPoint), Matlab, OpenOffice, OpenCV, Mysql, OPNET

Volunteer Experience **Turkish Graduate Student Association, Officer, 2009**

- Cultural event organizations including business seminars and parties.

Civic Involvement Projects, 2002-2005

- **Project Assistant, SG Elementary School, Istanbul, 2004-2005**
 - Raised cultural level of suburban areas and helped them to further develop themselves.
- **Project Supervisor, SOHS Elementary School, Istanbul, 2003-2004**
 - Enhanced the social and academic development of suburban children.
- **Participant, SHS Elementary School, Istanbul, 2002-2003**
 - Helped suburban children to improve socially and culturally.