

## **MERLINDA DRINI**

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### **EDUCATION**

#### **Doctor of Philosophy In Electrical Engineering**

The Graduate School and University Center of the City University of New York, June 2009  
Dissertation "Physical Layer Impact on Wireless Mobile Ad Hoc Network Performance"

#### **Master of Philosophy In Electrical Engineering**

The Graduate School and University Center of the City University of New York, February 2007

#### **Master in Engineering**

The City College of the City University of New York, June 2004

#### **Bachelor in Science and Master in Science in Electrical Engineering with focus in Electronics and Telecommunication**

University of Prishtina, Kosovo / Yugoslavia, September 1991

### **EMPLOYMENT HISTORY**

#### **August 2011 – Present**

Queensborough Community College / CUNY / NY  
Assistant Professor of Engineering Technology Department

#### **September 2010 – August 2011**

The New York City College of Technology / CUNY / NY  
Adjunct Professor of Electrical Engineering

#### **September 2010 – August 2011**

LaGuardia Community College / CUNY / NY  
Adjunct Professor of Mathematics

#### **September 2008 – August 2010**

LaGuardia Community College / CUNY / NY  
Mathematics, Engineering and Computer Science Department  
Sub-Assistant Professor of Mathematics and Computer Science

#### **September 2007 – September 2008**

LaGuardia Community College / CUNY / NY  
Adjunct Instructor of Mathematics

**February 2005 – June 2009**

The City College of New York / CUNY / NY

Center for Information Networking and Telecommunication, Department of Electrical Engineering Graduate  
Research Assistant

**September 1999 – January 2003**

UN HQ Civil Administration in Prizren / Kosovo

Information Technology Instructor

**January 1992 – March 1999**

"Merll-Soft" Computer Company in Prizren / Kosovo

Manager and Owner

**September 1994 – June 1998**

Technical College in Prizren / Kosovo

Instructor of Electronics and Information Technology

**September 1991 – June 1994**

University of Prishtina / Kosovo

Lecturer in Department of Electrical Engineering

## **CAREER HIGHLIGHTS**

- Certified in **Security +**
- Determined student capabilities and utilized effective teaching methods to educate students, handled lecturing responsibilities successfully
- Educated college-level students in math coursework including Introductory Algebra, College Algebra and Trigonometry, Calculus, Statistics, Probability & Statistics, Mathematics for Medical Dosages
- Instructed students on diverse subject matter including Electric Circuits, Digital Circuits, Electronics, Computer Programming in Visual Basic, C/C++, Java, Networking Fundamentals, Computer Applications, Network Security, Preparation for Security+, Computers in Society
- Served as a member of the Departmental Committees
- Defined and developed effective solutions for various problems related to basic skills that were identified by the Committee members
- Provided assistance for the new syllabus of Computer Science courses
- Developed a new course "Wireless Mobile Communications"
- Served as a faculty advisor and mentor for mathematics and engineering students
- Participated in the service learning project with Academic Literacy Center
- Supervised students doing advance projects in programming and computer networking
- Implemented the computer technology in educational system, including primary and secondary education and high schools

- Designed new teaching curriculums and methods for the subject Informatics and put the computer in an adequate perspective in education
- Created a general database for the education process
- Designed and developed software applications to submit market demands
- Designed computer software for finance, education, sales etc.

## **PROJECTS AND PRESENTATIONS:**

- [1]. **"Routing Decision of Mobile Ad-hoc Networks with Link Lifetime"**, NYSETA Conference October 25-26th, 2012, Rochester, NY
- [2]. **"Propagation Models and Interference between the Nodes on the Performance of OLSR Routing Protocol through a Series of Simulations in OPNET- CTA"**, University of Delaware, May 25th, 2008
- [3]. **"Cross-layer Design on Ad-Hoc Network Routing – CTA"**, University of Maryland, May 28-30, 2007

These projects are prepared through collaborative participation in the Communications and Networks Consortium sponsored by the U.S. Army Research Laboratory under the Collaborative Technology Alliance Program

## **PUBLICATIONS:**

- [1]. Merlinda Drini, Tarek Saadawi "Performance Improvement of MANETs with Link Lifetime", Submitted to International Journal of Modern Engineering, Peer reviewed journal, Volume 13, Number 1, Fall/Winter 2012
- [2]. Merlinda Drini, Tarek Saadawi " Routing Decision of Mobile Ad-hoc Networks with Link-Lifetime", NYSETA Conference, October 25-26th, 2012, Rochester, NY
- [3]. Merlinda Drini, Tarek Saadawi, "Physical Layer Impact in Wireless Ad Hoc Network Routing", In the Proceedings of ICSNC 2010, Nice-France. The Fifth International Conference on Systems and Networks Communications
- [4]. Merlinda Drini, Tarek Saadawi, "Link Lifetime Based Route Selection in Mobile Ad Hoc Networks", journal article published in International Journal of Communication Networks and Information Security IJCNIS 2009, Vol. 3.
- [5]. Merlinda Drini., Tarek Saadawi, "Performance of Ad Hoc Routing Protocols with Link State", In the Proceedings of 10th WSEAS Int. Conf. on Automation & Information , ICAI 2009, Prague-Czech Republic
- [6]. Merlinda Drini, Tarek Saadawi, "Modeling Wireless Channel for Ad Hoc Network Routing Protocol", ISCC, July 2008, pp. 549-555, Marrakech-Morocco
- [7]. Merlinda Drini, Tarek Saadawi, "Cross Layer Design of Ad Hoc Network Routing with Implementations to OLSR and DSR", In Proceedings of Networking and Electronic Commerce Research Conference NAEC 2008, La Guardia-Italy.

## **REFERENCES:**

**Prof. Tarek Saadawi Address:**

The City College of New York, Electrical Engineering Department, Steinman Hall, Room # T 529 Convent Avenue @ 140th Street  
New York NY, 10031 Phone:  
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**Prof. Myung Lee Address:**

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**Prof. Umit Uyar Address:**

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New York NY, 10031 Phone:  
(212) 650-5632  
uyar@ccny.cuny.edu

## **AFFILIATION**

Institute of Electronics and Electrical Engineers, IEEE  
Women in Engineering, WIE

## **COMPUTER SKILLS**

Microsoft Office, MS Access, C/C++, UNIX, Data Structures, Networking, Cisco, MATLAB, Visual Basic, PROMELA, OPNET, Lotus Notes, Java, SPSS, HTML