

EMAD SAMUEL MALKI EBEID

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EDUCATION

PhD Degree in Computer Science Jan., 2011 - Dec., 2013.

- From: Computer Science Department, University of Verona, Verona, Italy.
- Thesis title: *Modeling and Synthesis of the Network in Distributed Embedded Systems.*

Masters Degree in Electronic and Communication Fab., 2007 - Dec., 2009.

Engineering (M.Sc)

- From: Electronic and Communication Engineering Faculty, Arab Academy for Science and Technology (AAST), Cairo, Egypt.
- Thesis title: *Design and Implementation of Triple-Mode Digital Down Converter for WCDMA, CDMA2000 and GSM of Software Defined Radio based on an FPGA.*
- Grade: Excellent (G.P.A.: 3.67/4.0).

Bachelor's Degree in Electronic and Communication Engineering (B.Sc) Sep., 2001 - Jun., 2006.

- From: Electronic and Communication Engineering Institute, Shorouk Academy (SHA), Cairo, Egypt.
- Accumulative Grade: Excellent with honor (90.21%).
- Rank: The first.

EXPERIENCES

Tutor, University of Verona, Verona, Italy Jan., 2011 - Jun., 2014.

- Courses: Software Engineering, Computer Architecture and Operating Systems, Networked Embedded Systems, and Mathematical analysis.

Visiting researcher, University of Cantabria, Spain Jun., 2013 - Oct., 2013.

- Activities: Integration between HW/SW and NW simulators and a framework for design space exploration and performance analysis of the network in distributed embedded systems have been achieved.

Assistant lecturer, Egyptian Russian University, Sep., 2009 - Dec., 2010.
Cairo, Egypt.

- Courses: Communication I,II and Electronic II.

Instructor, Shorouk Academy, Cairo, Egypt Sep., 2006 - May, 2009.

- Courses: Electronic I,II, VLSI and Antenna.

SKILLS:

SOFTWARE

- C, C++, SystemC, SystemC/TLM, VHDL, Java, MATLAB, UML/MARTE, SysML, LaTeX, XML.

HARDWARE

- FPGA, PCB, PLC, ZigBee.

PROJECTS

- European projects (FP7): ToucHMore, COMPLEX and CONTREX.
- Undergraduate projects for B.Sc degree: Implementation of IFDMA, OFDMA, WIMAX 802.16 and UMTS physical layers prototypes on an FPGA.

PHD SUMMER SCHOOLS

- The DESTECS Summer School on Collaborative Modeling and Co-simulation for Embedded Systems Design.
Location: University of Twente, Netherlands.
Period: 9-13 July 2012.
- 12th International School on Formal Methods for the Design of Computer, Communication and Software Systems.
Location: Bertinoro, Italy.
Period: 18-23 June 2012.
- ARTIST Summer School Europe 2011.
Location: Aix-les-Bains, France.
Period: 4-9 September 2011.

TRAINING

- Telecommunication training at Izhevsk State Technical University.
Location: Izhevsk, Republic of Udmortia, Russia.
Period: 1 month in 2010.
- PSOC workshop at Arab Academy for Science and Technology.
Location: Cairo, Egypt.
Period: 1 week in 2008.
- VLSI , FPGA & CADENCE Course From Cadence, NTI at Arab Academy for Science and Technology.
Location: Cairo, Egypt.
Period: 1 month in 2007.

PUBLICATIONS

1. E. Ebeid, F. Fummi, D. Quaglia, H. Posadas, E. Villar. A Framework for Design Space Exploration and Performance Analysis of Networked Embedded Systems. In *ACM 6th Workshop on: Rapid Simulation and Performance Evaluation (RAPIDO - HiPEAC)*, Vienna, Austria, January 20-22, 2014.
2. E. Ebeid, F. Fummi, and D. Quaglia. Communication Alternatives Exploration in Model-Driven Design of Networked Embedded Systems. In *IEEE Microprocessor Test and Verification Conference (MTV)*, Austin, Texas, December 11-13, 2013.
3. E. Ebeid, F. Fummi, F. Stefanni, and D. Quaglia. Automatic Network Protocol Synthesis from UML Sequence Diagrams. In *IEEE Microprocessor Test and Verification Conference (MTV)*, Austin, Texas, December 11-13, 2013.
4. E. Ebeid, N. Bombieri, M. Lora, and F. Fummi. On the Reuse of Heterogeneous IPs into SysML Models for Integration Validation. In *IEEE Journal of Electronic Testing: Theory and Applications (JETTA)*, V. 29, October, 2013.
5. G. Botturi, E. Ebeid, F. Fummi, and D. Quaglia. Model-Driven Design for the Development of Multi-Platform Smartphone Applications. In *IEEE/ECSI Forum on specification & Design Languages (FDL)*, Paris, France, September, 22-24, 2013.
6. E. Ebeid, F. Fummi, and D. Quaglia. UML-based Modeling and Simulation of Environmental Effects in Networked Embedded Systems. In *IEEE The Digital System Design Conference (DSD)*, Santander, Spain, September, 9-11, 2013.
7. E. Ebeid, F. Fummi, and D. Quaglia. A Toolchain for UML-based Modeling and Simulation of Networked Embedded Systems. In *IEEE/ACM Computer Modelling and Simulation Conference (UKSim)*, Cambridge, UK, April 10-12, 2013.
8. E. Ebeid, N. Bombieri, M. Lora, and F. Fummi. On the Reuse of RTL IPs for SysML Model Generation. In *IEEE Microprocessor Test and Verification Conference (MTV)*, Austin, Texas, December 10-12, 2012.
9. T. Lazarescu, P. Sayyah, S. Bocchio, E. Ebeid, and D. Quaglia. Network-aware Design-Space Exploration of a Power-Efficient Embedded Application. In *IEEE/ACM The International Conference on Hardware/Software Codesign and System Synthesis (CODES)*, Tempere, Finland, October 7-12, 2012.

10. E. Ebeid, F. Fummi, and D. Quaglia. Generation of VHDL code from UML/MARTE sequence diagrams for verification. In *IEEE The Digital System Design Conference (DSD)*, Izmir, Turkey, September 5-8, 2012.
11. E. Ebeid, F. Fummi, and D. Quaglia. Generation of SystemC/TLM code from UML/MARTE sequence diagrams for verification. In *15th IEEE Symposium on Design and Diagnostics of Electronic Circuits and Systems (DDECS)*, Tallinn, Estonia, April 18-20, 2012.
12. E. Ebeid, F. Fummi, F. Stefanni, and D. Quaglia. Refinement of UML/MARTE models for the design of networked embedded systems. In *IEEE/ACM Design, Automation and Test in Europe Conference and Exhibition (DATE)*, Dresden, Germany, March 12-16, 2012, pp. 1072-1077.
13. E. Ebeid, K. Shehata, and A. Madian. Implementation of optimized Triple-Mode Digital Down Converter for WCDMA, CDMA2000 and GSM of SDR , In *IEEE International Conference on Microelectronics (ICM)*, Cairo, Egypt, December 19-22, 2010, pp. 395-398.
14. E. Ebeid, K. Shehata, and A. Madian. Design of optimized Triple-Mode Digital Down Converter for WCDMA, CDMA2000 and GSM of SDR , In *IEEE International Conference on Microelectronics (ICM)*, Marrakech, Morocco, 19-22 Dec. 2009, pp. 272-275.