Sameh Attia

CONTACT INFORMATION

ADDRESS: 367 Z, Hadabet El Ahram, Giza, Egypt EMAIL: sameh.a.attia@ieee.org, samehattia91@cu.edu.eg PHONE: +20 1002920361

Research Interests

Digital Design, Computer Architecture, VLSI, Network-on-Chip, FPGAs, Embedded Systems and Parallel Computing

EDUCATION

CURRENT MSc, Electronics and Communications Engineering, Cairo University, Egypt GPA: 4.0/4.0 Thesis: "Optimizing FPGA-based Hard NoCs" Supervisor: Prof. Hossam A. H. Fahmy, Assist. Prof. Hassan Mostafa

 MAY 2013 BSc, Electronics and Communications Engineering, Cairo University, Egypt Rank: 5th/280 | Distinction with honors | Cumulative rate: 90.51% Graduation project: "SDR Implementation of 802.11a receiver on USRP E100" Supervisor: Prof. Serag El-Din Habib, Prof. Mohamed Khairy

PROFESSIONAL EXPERIENCE

Jul 2014-Current	Research Assistant, Cairo University Research Project: "Design of High Speed Optic Networks with Optical On-Chip Network FPG Research Activity: -Designing and implementing soft and hard Netwo -Embedding the NoC inside FPGA layout for fabrica -Prototyping Optical NoC using Virtex7 Kits and optical	GA Integration" ork-on-Chip (NoCs) for FPGA ation using UMC 130nm
SEPT 2013-CURRENT	Teaching Assistant , Department of Electronics and Communications Engineering, Cairo University <i>Teaching Activity</i> :	
	-Microprocessor Design Course	Fall 2015, 2014
	-Data Structures Course	Spring 2015, 2016
	-Operating Systems Course	Spring 2015, 2014
	-Logic Design Course	Spring 2014, Fall 2013
	-Computer Architecture Lab	Fall 2015, 2013
	-Signals and Modulation Lab	Spring 2015, Fall 2014

INDRUSTRIAL TRAINING EXPERIENCE

Summer 2012	Wasiela Co. (Formerly Varkon Semiconductors) FPGA Design Flow, Fast division and Matrix inversion algorithms
Summer 2011, 2012	Security Meter Co. Linux Environment, System Programming and Linux-based Embedded systems

PUBLICATIONS

[1] K. Helal, **S. Attia**, T. Ismail, and H. Mostafa, "Comparative Review of NoCs in the Context of ASICs and FPGAs," *IEEE International Symposium on Circuits and Systems (ISCAS 2015)*, Lisbon, Portugal, IEEE, pp. 1866-1869, 2015. (Published)

[2] K. Helal, **S. Attia**, T. Ismail, and H. Mostafa, "Priority-Select Arbiter: An Efficient Round-Robin Arbiter," *IEEE International Conference on NEW Circuits and Systems (NEWCAS 2015)*, Grenoble, France, IEEE, pp. 1-4, 2015. (Published)

[3] K. Helal, S. Attia, T. Ismail, and H. Mostafa, "Dual Split-Merge: A High Throughput Router for FPGAs," *IEEE Transactions on Circuits and Systems II*. (Submitted)

Selected Extracurricular Activities

2013-CURRENT	Trainer, on Unix/Linux Environment and C/C++ Programming languages
Aug 2011-Aug 2012	Vice-Chairman , Communications and Electronics Club for Engineers (CECE), Cairo University Organizing the 29th National Radio Science Conference Apr 2012 Organizing various workshops, courses and events for students
Feb 2011-Aug 2011	Head , Academic Committee, Communications and Electronics Club for Engineers (CECE), Cairo University
Aug 2011-Jul 2012	Team Leader, Electronics Club, IEEE Cairo University Student Branch

Relevant Skills

HDL:	Verilog, VHDL
CAD Tools:	Modelsim, ISE, Vivado, Quartus, Design Compiler, Encounter, Virtuoso
Programming:	C/C++, MATLAB, CUDA, Assembly, Bare Metal, System programming
Hardware:	Xilinx FPGAs, TI C64+ DSP, Beagle board, USRPs, PIC Microcontrollers
Others:	Unix/Linux Environment, LTEX, ISTQB Certified, CCNA Cisco Certified

HONORS AND AWARDS

Sept 2013	Teaching Assistantship , by Department of Electronics and Communications Engineering, Cairo University for being ranked 5 th of 280 students
SEDT 2012	0 0
Sept 2013	····· ··· · · · · · · · · · · · · · ·
	Engineering, Cairo University
Apr 2012	Honored by Department of Electronics and Communications Engineering
	for my efforts in organizing the 29th National Radio Science Conference

LANGUAGES AND SCORES

ENGLISH: Excellent
ARABIC: Mothertongue

TOEFL: R:27 L:26 S:20 W:25 Total:98 GRE: V:153 Q:165 AW:3.5

References

Prof. Hossam A. H. FAHMY Prof. Serag E. D. HABIB Assist. Prof. Hassan MostAFA hfahmy@alumni.stanford.edu serag@eng.cu.edu.eg hmostafa@uwaterloo.ca