

SOHAIB MAJZOUB

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WORK EXPERIENCE

- Associate Professor of Electrical Engineering** 2020 - present
Associate Chair of Electrical Engineering Department 2019 - present
Senior Design Project Coordinator 2019 - present
Electrical Engineering Department, College of Engineering
University of Sharjah, Sharjah, UAE
- Associate Chair of Electrical Engineering Department** 2019 - present
Electrical Engineering Department, College of Engineering
University of Sharjah, Sharjah, UAE
- Senior Design Project Coordinator** 2020 - present
Electrical Engineering Department, College of Engineering
University of Sharjah, Sharjah, UAE
- Assistant Professor of Electrical and Computer Engineering** 2015 - 2020
Electrical and Computer Engineering Department, College of Engineering
University of Sharjah, Sharjah, UAE
- Assistant Professor of Electrical Engineering** 2012 - 2015
Electrical Engineering Department, College of Engineering
King Saud University, Riyadh, Saudi Arabia.
- Assistant Professor of Computer Engineering** 2010 - 2012
Electrical and Computer Engineering Department,
American University in Dubai, Dubai, UAE.

RESEARCH

- Associate Professor of Electrical Engineering** 2020 - present
Electrical Engineering Department, College of Engineering
University of Sharjah, Sharjah, UAE
- Co- Investigator:*
- Spotlight Project Fund: “Fast Fourier Transform Spectral Impedance Measurement using Structural Broadband Gaussian Noise Excitation” (budget **40,000 AED**)

Assistant Professor of Electrical and Computer Engineering 2015 - 2020
*Electrical and Computer Engineering Department, College of Engineering
 University of Sharjah, Sharjah, UAE*

Principal Investigator:

- Seed Project Fund: Project N# 160 2040 230-P, “Epileptic Seizure Detection Algorithm Implementation on FPGA” (budget **40,000 AED**)
- Targeted Project Fund: submitted, “Memristor Fabrication and Modeling as a Basic Building Block for Analog and Digital Applications” (budget **200,000 AED**)

Assistant Professor of Electrical Engineering 2012 - 2017
*Electrical Engineering Department, College of Engineering
 King Saud University, Riyadh, Saudi Arabia.*

Principal Investigator:

- Low-power many-core architecture design under process, voltage, and temperature variations. (budget **1,237,256 SAR**)
- Design and Implementation of Low-Noise and Low-Power Readout Infrared Circuit (ROIC) for Thermal Cameras (budget **1,759,699 SAR**).
- Amplifier and Filter Design for a Thermal Infrared Sensor (budget **29,990 SAR**).

Assistant Professor of Computer Engineering 2010 - 2012
*Electrical and Computer Engineering Department,
 American University in Dubai, Dubai, UAE.*

Principal Investigator:

- Modeling, analysis and reduction of process variation impact on integrated circuits reliability.
- Power and Performance modeling and optimization for Many-Core architectures.

Research Assistant, System-on-Chip Research Lab 2005 - 2010
*Electrical and Computer Engineering Department,
 University of British Columbia, Vancouver, BC, Canada.*

Research Assistant, Processor Architecture Lab 2003 - 2004
*Computer, Communications and Information Sciences,
 Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland.*

Research and Graduate Assistant, 2001 - 2003
*Electrical and Computer Engineering Department,
 American University of Beirut, Beirut, Lebanon.*

TEACHING

Associate Professor of Electrical Engineering 2020 - present
*Electrical Engineering Department, College of Engineering
 University of Sharjah, Sharjah, UAE*

Senior Design Project Coordinator 2020 - present
*Electrical Engineering Department, College of Engineering
University of Sharjah, Sharjah, UAE*

Assistant Professor of Electrical and Computer Engineering 2015 - 2020
*Electrical and Computer Engineering Department, College of Engineering
University of Sharjah, Sharjah, UAE*

Graduate Courses

- **0403520**: Computer Architecture (Fall 2016)

Undergraduate Courses

- **0402250**: Fundamentals of Electronics (2015-2017, 5 terms)
- **0402340**: Engineering Computations and Linear Algebra (2015-2020, 10 terms)
- **0403326**: Computer System Architecture (Fall 2016-2019, 4 terms)
- **0402255**: Applied Electronics for SREE (Spring 2016)
- **0403201**: Digital Logic Design (Fall 2018, Spring 2018-2020, 4 terms)
- **0403300**: Professional, Social and Ethical Issues in Engineering (2016, 2 terms)

Capstone Project Supervision Examples:

- Water Droplets Display, 2019-2020.
- Heart Arrhythmia Detection and Monitoring using Machine Learning, 2019-2020.
- Memristor in Security Applications, 2018-2019.
- Heart Arrhythmia Detection, 2018.
- Parking Guidance System, 2018.
- Behavior Analysis Tool for Autistic Children Using EEG Signals, 2017-2018.
- Design of the Payload, Power, and Thermal subsystems of a Cubesat, two projects in collaboration with MBRSC space center as part the Nano Outreach Program, where students work to implement a nano satellite (or cube satellite) subsystems to be launched to orbit 2016-2018.
- Anti-Shake Handle for Parkinson's Disease, 2016-2017.
- Cleaning Robot, Storing Robot, and Home Energy Management (won the research award from SEWA, UAE) 2015-2016.

Assistant Professor of Electrical Engineering 2012 - 2015
*Electrical Engineering Department, College of Engineering
King Saud University, Riyadh, Saudi Arabia.*

Graduate Students Supervision, Principal Supervisor:

- Syed Irtaza Haider, Thesis: "Readout Integrated Circuit Design (ROIC) for Low Power and Low Noise Uncooled IR Detector Array."

Many capstone project supervision (EE496-EE497), Principal Supervisor.

Preparing Lectures and Teaching of the following courses:

Graduate Courses

- **EE 618**: VLSI for Fast Processing Systems, (Spring 2014).

- **EE 651:** Parallel Processing and Programming, (Spring 2014)
- **EE 619/EE659 Special Topics:** Advanced Embedded Systems (Fall 2013).

Undergraduate Courses

- **CEN 415:** Introduction to VLSI (Fall 2014, Spring 2015)
- **EE 453:** Microprocessor and Embedded System Design (Spring 2014)
- **EE 353:** Introduction to Microprocessors, (Fall 2013, Spring 2014).
- **EE 208:** Logic Design (Fall 2012, Spring 2013).
- **GE 211:** Computer Programming in C++ (Fall 2012, Spring 2013).

Assistant Professor of Computer Engineering

2010-2012

*Electrical and Computer Engineering Department,
American University in Dubai, Dubai, UAE.*

Preparing Lectures and Labs and Teaching of the following courses:

Senior Level Courses

- **EECE 480:** Digital Integrated Circuits (Spring 2011).
- **EECE 445:** Advanced Computer Architecture (Fall 2011).
- **EECE 440:** Embedded System Design with Lab (Fall 2010-2011).
- **EECE 345:** Computer Architecture (Spring 2012).

Junior Level Courses

- **EECE 240:** Digital System Design with Lab (Spring 2011-2012, Summer 2011-2012).
- **COMP 180:** Fundamentals of Programming (2010-2011).

Teaching Assistant

2005-2010

*Electrical and Computer Engineering Department,
University of British Columbia, Vancouver, BC, Canada.*

Senior project assistance, lab instruction and teaching assistant:

- **EECE 496:** Engineering Project (2005 and 2008).
- **EECE 356:** Electronic Circuits II, (2007, 2008, 2009 and 2010)
- **EECE 259:** Introduction to Microcomputers (2008)

Teaching Assistant

2002-2003

*Electrical and Computer Engineering Department,
American University of Beirut, Beirut, Lebanon.*

Teaching Assistant

2002-2003

*Electrical Engineering Department,
Beirut Arab University, Beirut, Lebanon.*

Teaching assistant and lab instruction:

- **EE 407:** Logic Circuits and Logic Design II (2002-2003)
- **EE 515:** System Programming II (2002)

EDUCATION

Ph.D. in Electrical and Computer Engineering.

University of British Columbia (UBC), Vancouver, BC, Canada 2005-2010

- Low Power Design: Voltage Islands Design in Many-Core Architectures under Process, Voltage, and Temperature Variation.

Pre-Doctoral Fellowship in Computer, Communications and Information Sciences.

Swiss Federal Institute of Technology (EPFL), Lausanne, Switzerland 2003-2004

- Low Power Reconfigurable Hardware Design: A Soft-Datapath for Ultra Low Power URLAP Processor.

Masters in Computer and Communication Engineering.

American University of Beirut (AUB), Beirut, Lebanon 2001-2003

- Reconfigurable Processor Design: Performance Analysis of Multimedia and Cryptographic Applications on MorphoSys Reconfigurable Hardware.

Bachelor in Electrical Engineering, Computer Section

Beirut Arab University (BAU), Beirut, Lebanon 1995-2000

PUBLICATIONS

Books and Book Chapters:

- B1. **S. Majzoub** and H. Diab, Reconfigurable Systems for Cryptography and Multimedia Applications, book chapter, in the book "Data Acquisition Applications," edited by Z. Karakehayov, ISBN 978-953-51-0713-2, InTech, August 8, 2012.
- B2. **S. Majzoub**, Energy Optimization for Many-Core Platforms: under Process, Voltage and Temperature Variations, VDM Verlag, 168 pages, October 13, 2010, ISBN: 363-9-301056.

Refereed Journal Publications:

- J3. MA. Talib, **S. Majzoub**, Q. Nasir, and D. Jamal, " A systematic literature review on hardware implementation of artificial intelligence algorithms" *Journal of Supercomputing*, 28 May 2020.
- J4. **S. Majzoub**, A. Allagui, and A. ElWakil "Fast Spectral Impedance Measurement Method Using a Structured Random Excitation" *IEEE Sensors Journal*, 1 April 2020.
- J5. **S. Majzoub**, A. ElWakil, C. Psychalinos, and B. Maundy " On the mechanism of creating pinched hysteresis loops using a commercial memristor device" *AEU-International Journal of Electronics and Communications*, Vol 111, pp 152923, 1 Nov 2019.
- J6. **S. Majzoub**, R. Saleh, I. Ashraf, M. Taouil, and S. Hamdioui " Energy Optimization for Large-Scale 3D Manycores in the Dark-Silicon Era" *IEEE Access*, Vol 33, 21 Feb 2019.
- J7. T. Bonny, R. AlDebsi, **S. Majzoub**, and A. Elwakil "Hardware Optimized FPGA Implementations of High-Speed True Random Bit Generators Based on Switching-Type Chaotic Oscillators" *Circuits, Systems, and Signal Processing*, Vol. 38, Issue 3, March 2019.

- J8. **S. Majzoub**, M. Taouil, and S. Hamdioui, "System-Level Sub-20nm Planar and FinFET CMOS Delay Modelling for Supply and Threshold Voltage Scaling under Process Variation," *Journal of Low Power Electronics*, Volume 15, Issue 1, March 2019.
- J9. S. I. Warson, **S. Majzoub**, "EEG-Based Epileptic Seizures Detection with Adaptive Learning Capability" *International Journal on Electrical Engineering and Informatics*, 4 pp. 813-824 2017.
- J10. S. I. Warson, **S. Majzoub**, "Adaptive Epileptic Seizure Prediction Based on EEG Synchronization," *Journal of Biomimetics, Biomaterials and Biomedical Engineering*, Vol. 33 pp. 52-58 2017.
- J11. M. F. Zia, M. Abdel-Rahman, M. Alduraibi, B. Ilahi, E. Awad, and **S. Majzoub**, "Electrical and Infrared Optical Properties of Vanadium Oxide Semiconducting Thin-Film Thermometers." *Journal of Electronic Materials*, Vol. 10, 46, 22 May 2017.
- J12. S. I. Haider, **S. Majzoub**, M. Alturaigi, and M. Abdel-Rahman, "Pair-Wise Serial ROIC for Uncooled Microbolometer Array" in *IEIE Transactions on Smart Processing and Computing*, Volume 4, Issue 4, 2015, pp.251-257.
- J13. **S. Majzoub**, "Reducing Random-dopant fluctuation Impact using Footer Transistors in Many-core Systems," *Integration, the VLSI Journal*, Elsevier, Volume 48, Pages 46–54, 2015.
- J14. **S. Majzoub**, "Instruction-Based Voltage Scaling for Power Reduction in SIMD-Based MPSoCs," in *Journal of Low Power Electronics (JOLPE)*, American Scientific Publishers, pp. 141-147, Vol. 7, N° 2, April 2011.
- J15. **S. Majzoub**, and H. Diab "MorphoSys Reconfigurable Hardware for Cryptography: The Twofish Case," in *Journal of Supercomputing (JSC)*, Springer, Vol. 57, Issue 2, 2011.
- J16. **S. Majzoub**, R. Saleh, S. J.E. Wilton and R. Ward "Energy Optimization for Many-Core Platforms: Communication and PVT Aware Voltage-Island Formation and Voltage Selection Algorithm," in *IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems (IEEE-TCAD)*, pp. 816-829, Vol. 29, No. 5, May 2010.
- J17. **S. Majzoub**, and H. Diab, "Instruction-Set Extension for Cryptographic Applications On Reconfigurable Platform" Special Issue on Advances in Circuits and Systems for Large Scale Integration, *Journal of Circuits, Systems, and Computers (JCSC)*, World Scientific, pp. 911-927, Vol. 16, No. 6, 2008.

Refereed Conference Publications:

- C18. E. Habeeb Allah, **S. Majzoub**, and N. Ghazal, "Behavior Analysis Tool for Autistic Children Using EEG Signals," International Conference on Engineering Innovations in Healthcare ASET-19, Dubai, UAE, March 26-28, 2019.
- C19. M. Soudan, H. Al-Rifaie, T. Asmar, and **S. Majzoub**, "Smart Home Energy Management System, An exploration of IoT Use Cases," ASET-18, Advances in Engineering Technology and Sciences Dubai, UAE, Feb 6-7, 2018.
- C20. S. I. Haidar, **S. Majzoub**, M. Alturaigi, M. Abdulrahman " Column-Wise ROIC Design for Uncooled Microbolometer Array," *The 2015 International Conference on Information and Communication Technology Research (ICTRC2015)*, Abu Dhabi, UAE.

- C21. S. I. Haidar, **S. Majzoub**, M. Alturaigi, M. Abdulrahman "Modeling and Simulation of a Pair-Wise Serial ROIC Design for Uncooled Micro-Bolometer Array," *The International Conference on Electronics, Information and Communication (ICEIC 2015)*, Singapore.
- C22. H. Raslan, M. AlDaigami, A. Abdulrahman, A. El-Nasan, and **S. Majzoub**, "Monitoring System for Guyed Towers," *The 5th International Multi-Conference on Complexity, Informatics and Cybernetics (IMCIC'14)*, jointly with *The 20th International Conference on Information Systems Analysis and Synthesis (ISAS'14)*, Mar 4-7, 2014, Orlando, Florida, USA.
- C23. **S. Majzoub**, Zaid Alars, Said Hamdioui "Reducing Random-Dopant Fluctuation Impact on Core-Speed and Power Variability in Many-Core Platforms," *International Design and Test Symposium (IDT'13)*, Dec 16-18, 2013, Marrakesh, Morocco.
- C24. T. Koyagi, **S. Majzoub**, M. Fukui and R. Saleh "RTL Delay Macro-Modeling with Vt and Vdd Variability," In *International Design and Test Workshop (IDT'11)/ IEEE International Conference on Electronics, Circuits, and Systems (ICECS'11)*, pp. 118-123, Dec. 11-14, 2011, Beirut, Lebanon.
- C25. **S. Majzoub**, "Voltage Island Design in Multi-Core SIMD Processors," *The 5th International Design and Test Workshop (IDT'10)*, pp. 18-23, Dec. 14-15 2010, Abu Dhabi, UAE.
- C26. **S. Majzoub**, R. Saleh, S. J.E. Wilton, and R. Ward "Simultaneous PVT-Tolerant Voltage-Island Formation and Core Placement for Thousand-Core Platforms," *International Symposium on System-on-Chip (SoC'09)*, pp. 1-4, Oct. 5-7 2009, Tampere, Finland.
- C27. **S. Majzoub**, R. Saleh, S. J.E. Wilton, and R. Ward "Removal-Cost Method: An Efficient Voltage Selection Algorithm for Multi-Core Platforms under PVT," *22nd IEEE International System-on-Chip Conference (SoCC'09)*, pp. 357-360, Sep. 9-11 2009, Belfast, UK.
- C28. **S. Majzoub**, R. Saleh, and R. Ward, "PVT Variation Impact on Voltage Island Formation in MPSoC Design," *Proceedings of the 2009 10th International Symposium on Quality of Electronic Design (ISQED'09)*, pp. 814-819, Mar. 16-18 2009, San Jose, CA, USA.
- C29. **S. Majzoub**, and H. Diab, "Mapping and Performance Analysis of Lookup Table Implementations on Reconfigurable Platform," *IEEE/ACS International Conference on Computer Systems and Applications (AICCSA'07)*, pp.513-520, May 13-16, 2007, Le Méridien Amman Hotel, Amman, Jordan.
- C30. **S. Majzoub**, and H.Diab, "Instruction-Set Extension for Cryptographic Applications on Reconfigurable Platform" *The 6th International Workshop on System-on-Chip for Real-Time Applications, (IWSoc'06)*, pp.173-178, Dec. 27-29, 2006, Cairo, Egypt.
- C31. **S. Majzoub**, R. Saleh, and H. Diab, "Reconfigurable Platform Evaluation Through Application Mapping And Performance Analysis," *The 6th IEEE International Symposium on Signal Processing and Information Technology (ISSPIT'06)*, pp.496-501, Aug. 27-30, 2006, Vancouver, Canada.
- C32. M. Al-Khalidy, H. Diab, and **S. Majzoub**, "MorphoSys implementation of MD5 hash algorithm," *International Conference on Current Issues in Business and Information Technology*, May 21-22, 2004, Beirut, Lebanon.

- C33. H.Diab, and **S. Majzoub**, “Linear Filtering Algorithm Using Reconfigurable Computing.” *The ACS/IEEE International Conference on Computer Systems and Applications(AICCSA '03)*, July 14-18, 2003, Tunisia.
- C34. **S. Majzoub**, and H. Diab. “Mapping and Performance Analysis Of The Twofish Algorithm On MorphoSys.” *The ACS/IEEE International Conference on Computer Systems and Applications(AICCSA '03)*, July 14-18, 2003, Tunisia.
- C35. I. Damaj, **S. Majzoub** and H. Diab. “2D and 3D Computer Graphics Algorithms under MorphoSys.” *The 12th International Conference on Field Programmable Logic and Applications(FPL '02)*, in Lecture Notes in Computer Science, Volume 2438 (LNCS 2438), pp. 1076-1079, Sep. 2-4, 2002, Montpellier, France.

SELECTED SEMINARS AND INVITED TALKS

- P36. “Moore’s Law, the Multi-Core Shift, and the Dark Silicon Era,” Invited talk at the 3rd International Conference on Electronics, Communications and Photonics (SIEPC 2015), Riyadh, 27th to 28th of April, 2015, KSA.
- P37. “Many-Core Architectures: Processor Design Shift in The Mobile Computing Era,” Speaker at The International Symposium on Database Operations and Developments Technologies and Systems, Theme of the Symposium: Mobility, DODS 2012, The American University in Dubai, Dubai, U.A.E.
- P38. “Reducing Random-Dopant Fluctuation Impact on Core-Speed and Power Variability in Many-Core Platforms,” Doha, Qatar, Dec. 2012, IDT'12.
- P39. “RTL Delay Macro-Modeling with Vt and Vdd Variability,” Beirut, Lebanon, Dec. 2011, IDT'11.
- P40. “The Shift to Many-Core, Challenges and Opportunities,” Dubai, UAE, Apr. 2011, as part of IEEE UAE section seminars.
- P41. “Voltage Island Design in Multi-Core SIMD Processors,” Abu Dhabi, UAE, Dec. 2010, IDT'10.
- P42. “Simultaneous PVT-Tolerant Voltage-Island Formation and Core Placement for Thousand-Core Platforms,” Tampere, Finland, Oct. 2009, SoC'9.
- P43. “Removal-Cost Method: An Efficient Voltage Selection Algorithm for Multi-Core Platforms under PVT,” Belfast, UK, Sep. 2009, SoCC'09.
- P44. “PVT Variation Impact on Voltage Island Formation in MPSoC Design,” San Jose, CA, USA, Mar. 2009, ISQED'09.
- P45. “Mapping and Performance Analysis of Lookup Table Implementations on Reconfigurable Platform,” Amman, Jordan, May 2007, AICCSA'07.
- P46. “Instruction-Set Extension for Cryptographic Applications on Reconfigurable Platform,” Cairo, Egypt, Dec. 2006, IWSoc'06.
- P47. “Reconfigurable Platform Evaluation through Application Mapping And Performance Analysis,” Vancouver, BC, Canada, Aug. 2006, ISSPIT'06.

P48. “Linear Filtering Algorithm Using Reconfigurable Computing,” Tunisia, Jul. 2003, AICCSA’03.

P49. “Mapping and Performance Analysis Of The Twofish Algorithm On MorphoSys,” Tunisia, Jul. 2003, AICCSA’03.

AWARDS

- Service Recognition Award, School of Engineering, American University in Dubai (May 2012).
- University of British Columbia, PhD Tuition Award (2005-2010).
- University of British Columbia, Research Assistantship (2005-2010).
- University of British Columbia, Work Study Award Program (2008-2010).
- Design Automation Summer School (DASS 2009).
- Doctoral School Fellowship, Computer, Communication and Information Sciences, Swiss Federal Institute of Technology, (EPFL) (2003-2004).
- American University of Beirut Graduate and Research Assistantship (2001-2003).

COMMUNITY SERVICE

Conference and Journal Technical Reviewer:

- The Journal of Supercomputing, Technical Reviewer.
- International Journal of Electronics and Communications, Technical Reviewer.
- IEEE Transactions on Computer Aided Design of Integrated Circuits and Systems, (TCAD), Technical Reviewer.
- IEEE Transactions on Very Large Scale Integration (VLSI) Systems, (TVLSI), Technical Reviewer.
- International Journal of Electronics Letters, Technical Reviewer.
- Journal of Circuits, Systems, and Computers, Technical Reviewer.
- Design Automation Conference DAC (External Reviewer). 2008 - Present
- International Design and Test Conference IDT, Technical Program Committee. 2011 – Present
- The Smart Cities Symposium, TCP. 2019
- International Conference on Advances in Computer Technology Information Science and Communications, TPC. 2019
- The 8th International Conference on Modeling Simulation and Applied Optimization, TPC. 2019
- The International Conference on Signal Processing and Information Security, TPC. 2018
- IEEE International Conference on Electronics Circuits and Systems, TPC. 2018
- The 8th International Conference on Computer Science and Information Technology, TPC. 2018
- 1st New Generation of Circuits and Systems, TPC. 2017
- The 28th International Conference on Microelectronics, Technical Program Committee. 2016
- The 7th International Conference on Computer Science & Information Technology, TPC. 2016
- The 29th International Conference on Computers and Their Applications, TPC. 2014
- International Conference on Innovative Technologies IN-TECH, TPC. 2013
- Students Scientific Symposium SSS - King Saud University. 2013 - 2015
- The International Symposium on Database Operations and Developments Technologies and Systems, Steering Committee, American University in Dubai. 2011
- IEEE GCC Conference and Exhibition, TPC. 2011
- Federal Conference on Computer Science and Information Systems, TPC. 2011

- First Middle East Conference on Biomedical Engineering, TPC. 2011

Committees:

- Social Affairs Committee
College of Engineering University of Sharjah, 2018-present
- Master Re-Accreditation Committee
Department of Electrical and Computer Engineering University of Sharjah, 2018-present
- Department Curriculum Committee
Department of Electrical and Computer Engineering University of Sharjah, 2017-present
- PhD Initial Accreditation Committee
Department of Electrical and Computer Engineering University of Sharjah, 2017-present
- Senior Design Project Committee
Department of Electrical and Computer Engineering University of Sharjah, 2017-present
- Cyber Security Engineering Program Committee
Department of Electrical and Computer Engineering University of Sharjah, 2017-present
- Achievement and Publicity Committee
Department of Electrical and Computer Engineering University of Sharjah, 2015-2017
- Graduate Student Committee: Electrical Engineering, College of Engineering,
King Saud University, 2012-2015
- Session Chair: Multiprocessor Systems, International Design and Test Conference IDT. 2012
- Mechanical Engineering Hiring Committee, School of Engineering,
American University in Dubai. 2011
- Chair of Student Affairs Committee: School of Engineering,
American University in Dubai. 2011 - 2012
- International Microelectronics Olympiad of Armenia:
UAE Committee Member representing AUD, (AUD students won the first and third prizes
at the UAE level, 2011). 2011 - 2012

PROFESSIONAL AFFILIATIONS

- Senior Member of IEEE 1998- Present
- Member of IEEE Computer Society 1998- Present
- Member of IEEE Solid-State Circuits Society 2012- Present
- Member of IEEE Circuits and Systems Society 2012- Present
- Member of ACM 2004- Present