BASSEM A. ALHALABI
Associate Professor

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Education

Ph.D. in Computer Engineering
Majored in Artificial Neural Network Architectures and Parallel Processing
University of Louisiana at Lafayette (ULL), Lafayette, Louisiana, May 1995
Ph.D. Dissertation: "A Hybrid Chip Set Architecture for Artificial Neural Network Systems With On-Chip Learning And Refreshing" (Copyrighted, U.S. Patent # 5,781,702)

Master of Science in Computer Engineering
Majored in Parallel Processing
University of Louisiana at Lafayette (ULL), Lafayette, Louisiana, December 1993

Master of Science in Electrical Engineering
Majored in Automatic Control and Robotics
Purdue University (PU), W. Lafayette, Indiana, December 1986
Master Thesis: "Digital and Analog Circuit Designs for Robot Axis Controllers"

Bachelor of Science in Electrical Engineering
Majored in Microprocessors and Digital Systems
Ohio University (OU), Athens, Ohio, December 1984

Academic Awards and Recognition

- Appreciation Award for serving as a Local Arrangement Co-Chair, 23rd IEEE International Conference on Tools with Artificial Intelligence, Nov. 7-9, 2011, Boca Raton, Florida, USA.
- Award for Excellence in Undergraduate Teaching, 2007/2008, Florida Atlantic University. Presented at FAU annual convocation.
- The 10th year Service award, 2007, Florida Atlantic University. Presented by FAU Provost at the annual honor reception.
- Distinguished Teacher of the Year, 2006, FAU CSE Department. Selected by students and nominated to the College.
- Award for Excellence in Undergraduate Teaching, 2002/2003, College of Engineering, Florida Atlantic University. Presented by Dean of Engineering.
- Awarded FAU Tenure and Promotion to Associate Professor, 2002. Approved by Florida Board of Education on May 14, 2002.

- Outstanding Contribution and Commitment to serve students, Florida Atlantic University. Presented by FAU Student Government, March 23, 2002..
- Award for Excellence in Undergraduate Teaching, 2001/2002, College of Engineering, Florida Atlantic University. Presented by Dean of Engineering.
- The 5th year Service award, March 26, 2002, Florida Atlantic University. Presented by FAU Provost at the annual honor reception.
- Most Outstanding Professor of the Year, 2001, Florida Atlantic University. Presented by FAU Student Government as a part of Student Appreciation Awards.
- Distinguished Teacher on the Year, 2001, FAU CSE Department. Selected by students and nominated to the College.
- Faculty Leadership Talon Award, 2000, One of the three Finalist, Florida Atlantic University. Presented by FAU Provost.
- Distinguished Service Award, 2000/2001, Florida Atlantic University. Presented by FAU Muslim Student Organization.
- Outstanding Community Contribution and Dedication, 2000, Florida Atlantic University. Presented by FAU Muslim Student Organization at the First Annual Scholar Night.
- Award for Excellence in Undergraduate Teaching, 1998/1999, Florida Atlantic University. Presented by FAU Provost.
- National Dean's List, 1982-83.
- Ohio University Dean's list, 1983.
- Award for Outstanding Academic Achievement, Ohio University, 1983.

Special Recognition

- Appreciation and Special Thanks for Sharing Time and Talents, Florida Atlantic University. Presented by FAU Student Government at their annual festival, 2004.
- Certificate of Appreciation for Ramadhan Breakfast and Mini-Lecture Evenings, FAU 2004. Presented by FAU Student Government, Nov. 9, 2004.
- Listed in "Outstanding People of the 20th Century", 1999. Compiled by The International Biographical Center of Cambridge, England, Mid 1999.
- Member of International Who’s Who of Professionals

Honor Societies

- Honorary member of the Golden Key International Honor Society
- Member of Tau Beta Pi
- Member of Upsilon Pi Epsilon
- Member of Phi Kappa Phi

Professional Associations

- Member of UFF, United Faculty of Florida, Executive Committee
- Member of IEEE, Institute of Electrical and Electronic Engineering
- Member of IEEE CS, IEEE Computer Society,
- Member of IEEE Palm Beach Section Executive Committee,
- Member of ASEE, the American Society for Engineering Education
- Member of NEA, the National Education Association
- Member of ACM, Association of Computing Machines
- Member of NI, National Instruments LabVIEW software users group
- Member of SFEDG, South Florida Embedded Systems Group
- Member of ACA, American Creativity Association

Teaching Interests

- **Web-Based Controls and Automation Systems**
- **Embedded Systems and Microcontrollers**
- **Logic Design, Digital Systems, Computer Organizations and Architectures**
- Fault Tolerance, Design for Testability, Built-in Self Testing

Research Interests

- **Distance Education Technologies and Remote Laboratories**
- **Web-Based Controls and Automation Systems**
- **Embedded Systems and Microcontrollers**
- Parallel Processing Topologies and Architectures
- Digital and Analog VLSI Circuits and Systems,
- Hybrid Artificial Neural Networks

Work Experience

- **(10 Y) Associate Professor, August 2002-Current, Computer Science and Engineering (CSE), Florida Atlantic University (FAU)**
- **(11 Y) Director, 2001-Current, Center for the Advancement of Distance Education Technologies (CADET), Florida Atlantic University (FAU), CADET is a category III center. It is a collaborative research and development efforts between the College of Engineering and the College of Education.**
- (6 Y) Assistant Professor, August 1996-2002, Computer Science and Engineering (CSE), Florida Atlantic University (FAU)

- (3 Y) Co-Director/Co-Founder, 1998-2001, Florida Atlantic University (FAU). Established the Center for the Innovative Distance Education Technologies (CIDET). Name of the center was later changed to CADET.
- (1 Y) Visiting Assistant Professor, Sep 1995-Aug 1996, Electrical and Computer Engineering (ECE), University of South Alabama (USA)
- (5 Y) VLSI lab Manager at University of Louisiana at Lafayette (ULL) while I was doing MS and PhD, 1989-1995.
- (3 Y) Lead Design Engineer, Alhalabi Industries Inc., Damascus Syria, 1986-1989.

Professional Activities

Current Responsibilities

- President and CEO of R&D G's Inc., a start-up R&D company based in Boca Raton. Technical consulting, feasibility analysis, design, and prototyping of consumer technology products. This effort is mainly in the evening and weekend time, but it is significantly helping me bring local inventors and industries to FAU for collaborative research and grants.
- Member, Executive Committee of IEEE Palm Beach Section.

Annual Activities

2012

- **Distinguished Speaker,** 1st Symposium on Wireless Sensor and Cellular Networks 2012 (WSCN12), December 15-17, 2012, Tabuk University, Tabuk, Saudi Arabia.
- **Local Arrangement Co-Chair,** 11th International Conference on Machine Learning and Applications ICMLA 2012, December 12-15, Boca Raton, Florida, USA.
- **Sabbatical 2012-12013. Catching up with my research projects and brining more sponsored and funded research.**

2011

- Local Arrangement Co-Chair, 23rd IEEE International Conference on Tools with Artificial Intelligence, Nov. 7-9, 2011, Boca Raton, Florida, USA
- Local Arrangement Co-Chair, The 13th IEEE International High Assurance Systems Engineering Symposium, Boca Raton, FL. Nov 10th to 12th, 2011.
- Served as judge for science and engineering projects from middle- and high-school student, Florida Science Olympiad, February 18, 2011.
- Technical paper reviews (JNM/906237) for the Journal of Nanomaterials, Jan 14, 2011.
- Technical paper reviews (sensors-7203) for the Sensors (ISSN 1424-8220; CODEN: SENSC9), March 3, 2011.

2010

- Special computer engineering session for kids ages 8-12. Special class offered for Summer Youth College program at PBCC, June 29, 2010.

2009

- Special computer engineering session for kids ages 8-12. Special class offered for Summer Youth College program at PBCC, July 14, 2009.
- Technical paper reviews for the IEEE ISCAS2010 conference, 2010.

2008

- Publication Chair, The 6th ACS/IEEE International Conference on Computer Systems and Applications (AICCSA-08), Doha, Qatar, April 1-4, 2008.
- Special computer engineering session for kids ages 8-12. Special class offered for Summer Youth College program at PBCC, July 8, 2008.
- Special computer engineering session for kids ages 8-12. Special Day offered for Summer Youth Program at Garden of the Sahaba Academy, July 10, 2008.
- Special session for autistic kids ages 5-8. I helped the kids understand the concept of solar energy and made them build a grasshopper toy which constantly hops due a motor rotation powered by a solar cell. The class offered for Summer program at Sandpipers Shore Elementary School. July 11, 2008.

2007

- IEEE Palm Beach Section Executive Committee, Boca Raton, Florida, IEEE, (Quarterly meeting).
- Special computer engineering and embedded systems for kids ages 8-12. Special class offered for Summer Youth College program at PBCC, July 18, 2007.

2006

- IEEE Industrial Electronics Society, publication reviewer.
- Consulting for a consumer company, designing FRID employee tracking system (Confidential material).
- Consulted for a consumer company, designing a wireless remote control for a swimming pool controller.
- IEEE Palm Beach Section Executive Committee, Boca Raton, Florida, IEEE, (Quarterly meeting).
- May 16, 2006, attended a full-day Freescale seminar on ColdFire microcontroller. It is a RISC engine for embedded systems with web-server application.
- National Instruments LabVIEW software users group, NI Academic, (Quarterly).
- South Florida Embedded Systems Group Meetings, SFEDG, (Monthly).

2005

- Founded R&D G's Inc., a start-up R&D company based in Boca Raton. Feasibility analysis, design, and prototyping of consumer technology products.
- Technical Program Chair, International Conference on Systems, Computing Sciences and Software Engineering (SCS2 05), December 10-20, 2005. A conference of the International Joint Conferences on Computer, Information, and

Systems Sciences, and Engineering (CIS2E 05), Sponsored by IEEE and University of Bridgeport.

- Textbook Review, "*Digital Design*" By Frank Vahid, first edition, John Wiley & Sons, 2005.
- IEEE Palm Beach Section Executive Committee, Boca Raton, Florida, IEEE, (Quarterly meeting).
- Consulted for a consumer company, designing FRID employee tracking system (Confidential material).
- Consulted for a consumer company, designing swimming pool controller.
- National Instruments LabVIEW software users group, NI Academic, (Quarterly).
- South Florida Embedded Systems Group Meetings, SFEDG, (Monthly).
- Keynote speech, "Remote Labs and Engineering Distance Education", 6th Lamar Annual Student Research Conference, April 21-23, 2005, Lamar University, Texas.
- Consulting: Design and development for "Gyro-Balanced Boat Stabilizer" converting mechanical system assembly into computerized control. From patent to design. Prototype awaiting investment funds, 2005.
- Consulting: Design and development for "Interactive Multimedia Kiosk". From patent to design. Prototype awaiting investment funds, 2004/2005.

2004

- Consulting: Design and development for "Swimming Pool Heater Controller". From patent to prototype to mass production, 2004.
- "Interactive Multimedia Kiosk" Consulting Proposal, February 13, 2004.
- National Instruments LabVIEW software users group, NI Academic, (Quarterly).
- South Florida Embedded Systems Group Meetings, SFEDG, (Monthly).

2003

- National Instruments LabVIEW software users group, NI Academic, (Quarterly).
- South Florida Embedded Systems Group Meetings, SFEDG, (Monthly).
- Consulting: Design and development for "Swimming Pool Heater Controller". From patent to prototype to mass production, 2003.
- Sabbatical leave projects, 2003-04: "Cell Phones as Global Connectivity for Safety, Security, and Control", a research proposal submitted to Motorola Inc. Proposal was approved and signed but immediately cancelled due to unknown reasons. October 13, 2003.
- Web-Based Home Controls, Proposal and Presentation for Global Protectors, April 14, 2003.
- Visited Citrix Inc. with CSE team for research collaboration, March 27, 2003.
- Attended Publish Invent and make money by FAU Office of Technology Transfer, Feb. 13, 2003.
- Embedded Systems Proposal and Presentation for Mekanica, Feb. 11, 2003.
- Attended OE CSE collaboration meeting, Jan, 2003.

Academic Services

- **Member, CEECS Laboratory and Equipment Committee, 1996-Current**
- **Member, CEECS CE Undergraduate Program Committee, 2008-Current**
- **Member, CEECS Teaching and Graduate Assistants Committee, 2008-Current**
- **Member, College Pre-Engineering Program, 2008-Current**
- **Member, FAU Diversity /Interfaith Committee, 2008-Current**
- **Advisor, FAU Muslim Student Organization, 2006-Current**
- **Member, UFF Executive Committee, FAU, 2005-Current**

- Member, College of Engineering, 2010 and beyond, 2010-2011
- Member, CSE Undergraduate Program Committee, 2008-2010
- Member, CSE ABET/SACS Committee, 2008-2010
- Member, CSE Executive Committee, 2008-2009
- Member, CSE Personnel Committee, 2007-2009
- Member, UFC Distance Education Committee, FAU, 2000-2006
- Member, FAU University Faculty Council Committee on Academic Freedom, FAU, 1998-2006
- Director, CSE CE Undergraduate Program Committee, FAU, 2005-2006
- Maintain a web site to provide a web support for few courses at department and college level. It served the following courses: Logic Design (CSE all sections), Microcomputer (CSE all sections), Senior Project, Engineering Design I and II (College wide), Embedded Systems, Data Acquisition, FAU, 1997-2003.
- Member, FAU Senate Planning Committee, FAU, 2004
- Member, ENG College ABET Eng. Design Committee, FAU, 2000-2004
- Member, ENG College ABET Committee, FAU, 1999-2004
- Member, CSE Department Executive Committee, FAU, 1999-2001
- Member, CSE Undergraduate Computer Engineering Committee, FAU, 1996-1999
- Member, CSE Undergraduate Program Committee, FAU, 1996-1999

Community Services

- Special engineering sessions for summer camps for local schools and scouts.
- Volunteer work at local k-12 schools, wherever my children are.
- PTA national and local member.
- Occasional computer related tours on FAU campus for local schools.
- Lectures at several community entities, FAU, Nova University, Hospitals, Churches, Synagogues, Islamic Centers, and others.
- A founding and exec member of the Islamic Center of Boca Raton, 2000-2012.

- A founding member and chairman of the board of education, Garden of the Sahaba Academy, Boca Raton, 2000-2012.
- Member of Boca Raton Clergy Association, 2007-2012
- Vice President of Delray Beach Interfaith Clergy Association, 2007-2012

Courses Taught

- **COT4935 (FAU, Current) Senior Seminars**
- **CDA4630 (FAU, Current) Intro to Embedded Systems Design**
- **CDA6316 (FAU, Current) Embedded Systems Design**
- **COT5930 (FAU, Current) Data Acquisition and Control**
- **CDA3201C (FAU, Current) Introduction to Logic Design (including lab)**
- **CDA3331C (FAU, Current) Introduction to Microcomputers (including lab)**
- **EGN4410 (FAU, Current) ENG College Engineering Design I**
- **EGN4411 (FAU, Current) ENG College Engineering Design II**
- **CDA4905 (FAU, Current) Computer Engineering Independent Study**
- **COT6900 (FAU, Current) Computer Science Independent Study**
- **COT6905 (FAU, Current) Computer Engineering Independent Study**
- CDA4914 (FAU, 1996-2001) Senior Projects Lab I
- CDA4915 (FAU, 1996-2001) Senior Projects Lab II

Courses Developed

- New. CDA4630 (FAU, 2003) Intro to Embedded Systems Design, constant modernization and improvement.
- New. EGN4410 (FAU, 2002) ENG College Engineering Design I
- New. EGN4411 (FAU, 2002) ENG College Engineering Design II
- New. CDA6316 (FAU, 1999) Embedded Systems Design
- New. CDA4914 (FAU, 1998) Senior Projects Lab I
- New. CDA4915 (FAU, 1998) Senior Projects Lab II
- New. COT5930 (FAU, 1997) Data Acquisition and Control
- Enhanced. CDA3331C (FAU, 1997) Introduction to Microcomputers with Lab
- Enhanced. CDA3201C (FAU, 1997) Introduction to Logic Design with Lab

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Laboratories Developed

Full-Room Laboratories

- **Introduction to Microcomputers Lab**, FAU, 2007-08. Revamping the lab and migrating from the basic Motorola 68000 platforms to the FreeScale ColdFire platform. The ColdFire microcomputer chip is the latest in the embedded systems paradigm It offers the latest in embedded solutions, such as 12-b ADC, PWM

timers, Real Time clock etc… and yet still has the legend 68000 microprocessor core. The college supported this modernization of the lab by allocating funds to purchase 48 units.

- **Embedded Systems and Web-based control Lab**, FAU, 2004-2006. This new lab is primarily used for the Embedded System classes I teach but open for general student access for senior projects. The lab is also used for some sponsored research activities and grants from industry and government.
- **Data Acquisition and Control Lab**, FAU, August 1997-99. This new lab is primarily used for the Data Acquisition and Control Course. The lab is also used for some sponsored research activities and grants from industry and government.
- **Senior Project Lab**, FAU, 1996-99. The purpose of this new lab is to provide the senior students with state-of-the-art multipurpose laboratory with commercial hardware and software tools. Students can build and prototype real-world computer-based applications that better prepare them for the real challenging world. The lab includes various stations covering: Data Acquisition and Control, Data Communication, Single Board and Industrial Computers, Embedded Micro-controllers and Computers, A Fast Prototyping Digital Station (FPGA based), and Software Development, with each station featuring several platforms and/or manufacturers.
- **Introduction to Logic Design Lab**, FAU, 1996-98. This new lab is supported by the CSE Department and it has 20 stations. Each station includes a Logic Trainer with pre-built (fixed) testing accessories and a removable (portable) breadboard. Students conveniently build logic experiments on various portable breadboards, and in the lab, connect them to the trainers for testing. For design entry, verification, and simulation, VIEWlogic software package with its full industrial strength will provided at each station.
- **Introduction to Microcomputers Lab**, FAU, 1996-98. This new lab is supported by the CSE Department and it has 20 stations. Each station includes a 68000 Microprocessor Trainer with pre-built (fixed) testing accessories and a removable (portable) breadboard. Students conveniently build microprocessor interface experiments on various portable breadboards, and in the lab, connect them to the trainers for testing. The 68000 boards are programmed through assembly language and high-level cross-compilers which are provided at every station.

Instructional Grants

- FAU, College of Engineering
  - ($6,000 Grant) (funded May 2008)
  - **PI: Bassem Alhalabi**
  - Title: Computer Engineering lab Enhancement
  - Purpose: Money spent to enhance the CSE undergraduate labs. We purchased 48 new FreeScale ColdFire platforms which will be used for both CDA 3331 Intro to Microcomputers Lab and CDA 4630 Intro to Embedded System.
- FAU, College of Engineering
  - ($20,000 Grant) (May 2007)
  - **PI: Bassem Alhalabi**

- CoPi: Borko Furht, Ravi Shankar, Abhi Pandya, and Imad Mahgoub
- Title: Computer Engineering lab Enhancement
- Purpose: Money spent to enhance and/or create new hand-on state-of-the-art environment for Computer Engineering students. Equipment includes web cams, ARM9 development kits, various microcontrollers, single-chip embedded web servers, single-chip embedded Bluetooth and others

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Executive Weekend Graduate Program

- Since the inception of this special program, I have participated in creating one course of the curriculum, which is tailored for graduate-level hands-on. This is course is design for working professionals who are already at an advanced stage of their expertise. But still adds to their experience and it is often greatly appreciated.

Patents

- Bassem Alhalabi, et al, “System for Facilitating Participation of a Plurality of Pilgrims in an Annual Pilgrimage". U.S. patent Application N. 13478496, 2012.
- Bassem Alhalabi and Magdy Bayoumi, "Hybrid Chip-set Architecture for Artificial Neural Network Systems", U.S. Patent #5,781,702, 1998. Sponsored by University of Louisiana.
- Bassem Alhalabi and Khalid Hamza, "Remote Laboratory Experimentation". U.S. patent Application N. 60/281,229, 2002. Sponsored by Florida Atlantic University. Patent application was abandoned in 2007.
- Bassem Alhalabi, et al. various white papers for possible patenting in medical innovations field.

Centers

- Center for the Advancement of Distance Education Technologies.
  - Director: Dr. Bassem Alhalabi,
  - Founders: Dr. Bassem Alhalabi and Dr. Khalid Hamza
  - Collaborators: Drs. Maria Petrie, Sam Hsu, and Robin Jordan
  - Activities: Research and Development in Remote Labs.

Publications

Total 64: Book Chapters (3), Journals (14), Conference (41), Others (6)

- All Publications are refereed except for the very few as indicated.
- Within each group, publications are listed in order with the most recent on the top.

- The header of each publication indicates:
  - My personal reference serial number,
  - A letter to indicate if it is a (B)ook, (J)ournal, (C)onference or, (O)ther,
  - A link to the actual publication if available, and
  - An indication if it is not refereed.

1. Book Chapters (Total 4)

- 55-B, PDF,
  M. Alkhatib, M. Alam, B. Alhalabi, and I. Saeed, "Internet Protocol TV: The Use of Intelligent Compression for Future IPTV Networks" International Engineering Consortium, August 2006. ISBN: 978-1-931695-46-6
- 52-B, Abst, PDF,
  A. Abu-El Humos and B. Alhalabi, “FASMAC: A Low Latency and Energy Efficient MAC Protocol for Wireless Sensor Networks”, 2006, Advances in Computer, Information, and Systems Sciences, and Engineering, Pages 179-184.
- 50-B, Link, PDF,
  A. Abu-El Humos, M. Cardei, B. Alhalabi, and S. Hsu, “Medium Access Control Protocols for Wireless Sensor Networks,” Wireless Sensor Networks and Applications, Y. Li, M. Thai and W. Wu (Eds.), Springer, Network Theory and Applications, 2005.
- 9-B
  B. A. Alhalabi, et al., "Built-In-Self-Test Architecture for Wafer Scale Architecture", Defect and Fault Tolerance. Vol III, Plenum Publishing, Edited by T. Mangir, August 1992.

2. Journal Articles (Total 14)

- 63-J: Abst, PDF,
  Sloan, J., Khoshgoftaar, T.M., Alhalabi, B., and Beaujean, P-P., “Strategy and Application of Data-Driven Testing of an Ocean Turbine Drivetrain.” International Journal of Reliability, Quality, and Safety Engineering, 2012. In Press.
- 47-J: Abst, PDF,
  Mohammad Khalid Hamza, Qutaibah Malluhi, Bassem A. Alhalabi, "Distance Education Technologies (DET): Assessment & Evaluation!" AACE Journal, formerly Educational Technology Review, Vol. 12, Issue. 1, 2004, pp. 38-55
- 45-J: Abst, PDF,
  Khalid Hamza, Bassem Alhalabi, Sam Hsu, and Maria Petrie, David Marcovitz, "Remote Labs: The Next High Tech Step Beyond Simulation for Distance Education", Journal of Computers in the Schools, Vol.19, No2/4, 2002, pp.171-190, the Haworth Press, 2002, Binghamton, NY.
- 44-J:
  Khalid Hamza, Bassem Alhalabi, Sam Hsu, and Maria Petrie, David Marcovitz, "Remote Labs: The Next High Tech Step Beyond Simulation for Distance Education", Journal of Distance Education: Issues and Concerns, ed: Cleborne D.

Maddux, Jacque Ewing-Taylor, and D. LaMont Johnson, pp.171-190, the Haworth Press Inc, 2002, Binghamton, NY.

- 49-J:
  Alhalabi, B., Hamza, M. K., and Marcovitz, D. M., "Innovative distance education technologies: remote labs in science & engineering education". ISTE Journal of Online Learning, June, 2001.
- 41-J: Abst, PDF,
  Osama A. Mohammed, David A. Lowther, Meng H. Lean, and Bassem A. Alhalabi, "On the Creation of a Generalized Design Optimization for Electromagnetic Devices", It will appear in the IEEE Transactions on Magnetics, September 2001 issue. PP 3562 – 3565.
- 23-J, Abst, PDF, (highly selected editorial choice)
  M. Khalid Hamza, Bassem Alhalabi, and David Marcovits, "Creative Pedagogy for Computer Learning: Eight Effective Tactics", ACM SIGCSE Bulletin -- Inroads, Volume 32, Number 4, pp 70-73, December 2000.
- 26-J: Link, PDF,
  S. Hsu, Oge Marques, M.K. Hamza & B. Alhalabi, "How to Design a virtual Classroom: 10 Easy Steps to Follow", The Technological Horizons in Education (THE) Journal, vol 27, no 2, pp. 96-109, Sep. 1999.
- 27-J, Abst, PDF, Link,
  M. K. Hamza & B. A. Alhalabi, "Technology and Education: Between Chaos and Order, First Monday Journal, Vol. 4 No. 3 - March 1st., 1999.
- 25-J: (highly selected editorial choice)
  M. K. Hamza & B. Alhalabi, "Touching Students Minds in Cyberspace", Journal of Learning and Leading with Technology, International Society for Technology in Education ISTE, March 1999.
- 17-J: Abst, PDF,
  B. A. Alhalabi, M. A. Bayoumi, and B. Maaz "Mixed-Mode Programmable and Scalable Architecture for On-Chip Learning", International Journal of Analog Integrated Circuits and Signal Processing, Special issue: Learning on Silicon, Kluwer Academic Publisher, Edited by Gert Cauwenberghs et.al. pp 173-194, Boston, February, 1999.
- 21-J, Link, (highly selected editorial choice)
  B. Alhalabi, S. Anandapuram, and K. Hamza, "Real Laboratories: an innovative rejoinder to the complexities of distance learning", the Open Praxis Journal of International Council for Open and Distance Education, U.K., Volume 2, 1998.
- 19-J, Link,
  R. A. Ayoubi, M. A. Bayoumi, and B. A. Alhalabi, "An Efficient Mapping Algorithm of Multi-Stage Perceptron on Mesh-Connected Architecture", Journal of Parallel Algorithms and Architectures, 1997.
- 6-J: Abst, PDF, Link,
  M. A. Bayoumi, P. Rao, and B. A. Alhalabi, "VLSI Parallel Architecture for Kalman Filter: An Algorithmic Specific Approach", Journal of VLSI Signal Processing, 4, pp 147-163, Kluwer Academic Publisher, Boston, March 1992.

3. Conference Papers (Total 40)

- 62-C, PDF,
  Wald, R., Khoshgoftaar, T.M. and Alhalabi, B., "A Novel Baseline-Differencing Approach to Create Generalizable Reliability Models of Ocean Turbine Behavior." Proceedings of the 18th ISSAT International Conference on Reliability and Quality in Design, Boston, Massachusetts, July 26-28, 2012.
- 61-C, Abst, PDF, Link,
  Vivek Tyagi, Ankur Agarwal, A. S. Pandya, B. Alhalabi, "Validation of Object Recognition Framework on Android Mobile Platform", IEEE 13th International Conference on High Assurance System Engineering (HASE), Nov 10-12, 2011, PP 313 – 316.
- 60-C, Abst, PDF, Link,
  Duhaney, J., Khoshgoftaar, T.M., Sloan, J., Alhalabi, B. and Beaujean, P.P. "A Dynamometer for an Ocean Turbine Prototype: Reliability through Automated Monitoring " IEEE 13th International Conference on High Assurance System Engineering (HASE), Nov 10-12, 2011. PP 244-251.
- 59-C, Abst, PDF,
  Sloan, J., Khoshgoftaar, T.M. and Alhalabi, B., "A Strategy for Data-Driven Testing of an Ocean Turbine Drivetrain." Proceedings of the 17th ISSAT International Conference on Reliability and Quality in Design, Vancouver, B.C., Canada, August 4-6, 2011, pp.364-368.
- 58-C, Abst, PDF,
  Ionut Cardei, Ankur Agarwal, Bassem Alhalabi, Timur Tavtilov, Taghi Khoshgoftaar, Pierre-Philippe Beaujean, "Software and Communications Architecture for Prognosis and Health Monitoring of Ocean-based Power Generator," the 5th IEEE Systems Conference, Montreal, Canada, April 2011
- 57-C, Abst, PDF,
  Chad Calvert, Georgiana Hamza-Lup, Ankur Agarwal, Bassem Alhalabi "An Integrated Component Selection for System Level Design", IEEE Conference on Systems Engineering, 2011
- 56-C, Link, PDF,
  B. Alhalabi, M.K. Hamza, and Ali Abu-El Humos, "Distance Education: Remote Labs Environment", Proceedings of ASEE Zone 1 Conference (ASEE Z1), United States Military Academy, West Point, NY, March 28-29, 2008.
- 54-C , PDF,
  M. Alkhatib, M. Alam, B. Alhalabi, Y.Tung, and S. Alsharief, "Future Cellular Systems: with Lightning Prediction Capability and Adaptive Coding for Reliable Communications", Proceedings of World Multi-Conference on Systemics, Cybernetics, and Informatics (WMSCI 2006), Orlando, FL, July 2006.
- 53-C, PDF,
  M. Alkhatib, M. Alam, and B. Alhalabi "Various Scenarios for Maximizing the Life Time of Wireless Sensor Networks", Proceedings of World Multi-

Conference on Systemics, Cybernetics, and Informatics (WMSCI 2006), Orlando, FL, July 2006.

- 52-C, Link, PDF,
  A. Abu-El Humos and B. Alhalabi, “FASMAC: A Low Latency and Energy Efficient MAC Protocol for Wireless Sensor Networkss”, International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CIS2E 05), Sponsored by IEEE and University of Bridgeport, December 10-20, 2005.
- 51-C, Abst, PDF,
  Ali Abu-El Humos, Bassem Alhalabi, M. K. Hamza, Eric Shufro, Wael Awada, “Remote Labs Environments (RLE): A Constructivist Online Experimentation in Science, Engineering, and Information Technology”, the 31st Annual Conference of the IEEE Industrial Electronics Society Sheraton Capital Center, Raleigh, North Carolina, USA November 6 – 10, 2005.
- 49-C, Link,
  M. K. Hamza, Bassem Alhalabi, Robin Jordan, Niveen Yaseen, Shyam Shukla, Ali Abu-El Humos, “Remote Lab Environments (RLE): Real Experiments at a Distance in Science and Engineering”, 3rd International Conference on Computer Science and its Applications (ICCSA-2005) , June 28-30, 2005, San Diego, California, USA.
- 48-C
  Bassem Alhalabi, Robin Jordan, Ali Abu-El Humos, Khalid Hamza, "Measuring Static and Kinetic Friction on an Inclined Plane via Remote Labs Modality", The World Multi-Conference on Systemics, Cybernetics, and Informatics SCI 2005. Orlando, FL.
- 46-C
  Alhalabi, B., Abul-Humos, A., Hamza, K., & Perie, M. (2004). "Remote labs: BJT transistor IV characteristics", The World Multi-Conference on Systemics, Cybernetics, and Informatics SCI 2004. Orlando, FL.
- 43-C, Abst, PDF,
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  Q. M. Malluhi, M. K. Hamza, B. A. Alhalabi, "Innovative explorations of distance learning technologies (DLT) at Jackson State University", Online Conference on Teaching Online in Higher Education (TOHE) organized by Indiana University and Purdue University. Published Conference Online Paper, November, 2000.
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  J. Riches, N. Erdol, B. A. Alhalabi, "Statistical Error Shaping for Mismatch Cancellation in Complex Data-Sigma Modulators", Proceedings of the 2000 IEEE Workshop on Signal Processing Systems (SiPS) Design and Implementation, Lafayette, Louisiana, 11-13 October 2000.
- 35-C, Link, PDF,
  Bassem Alhalabi, David Marcovitz, Khalid Hamza, and San Hsu "Remote Labs: An Innovative Leap in Engineering Distance Education", Proceedings of the ACE 2000, IFAC/IEEE Symposium on Advances in Control Education, Gold Coast, Australia, 17-19 December 2000.
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  K. Hamza, B. A. Alhalabi, and D. M. Marcovitz, "Remote Labs! Technology and Teacher Education", Proceedings of the 10th International Conference, Society for Information Technology and Teacher Education, Association for the Advancement of Computing in Education (AACE/SITE 2000), San Diego, CA, February 8-12, 2000.
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  M. Khalid Hamza, Sam Hsu and Sudeep Anandapuram, Bassem Alhalabi, "Virtual Education: Reality or Virtuality", Proceedings of the 10th International Conference, Society for Information Technology and Teacher Education, Association for the Advancement of Computing in Education (AACE/SITE 99), Feb. 28-Mar. 4th, 1999, San Antonio, Texas, pp.1523-1528B.
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  B. A. Alhalabi, M. K. Hamza, S. Hsu, & N. Romance, "Virtual Labs VS Remote Labs: Between Myth and Reality" Proceedings of Florida Higher Education Consortium 7th Statewide Conference, Deerfield Beach, Florida, November 12-14, 1998.
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  B. A. Alhalabi, Q. Malluhi, and R. Ayoubi, "Non-Refreshing Analog Neural Storage Tailored for On-Chip Learning", Proceedings of the 8th Great Lakes Symposium on VLSI, pp. 168-171, Lafayette, LA, February 19-21, 1998.
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B. A. Alhalabi and M. A. Bayoumi, "A Scalable Hybrid Neural Accelerator", Proceedings of World Congress on Neural Networks, Washington DC, July 17-21 1995.

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- 7-C, Abst, PDF, Link,
  B. A. Alhalabi, M. A. Bayoumi, and K. Valavanis, "A General Purpose VLSI Chip for Robot Axis Motion Controller", 1992 IEEE International Symposium on Circuits and Systems, vol 6, pp 3005-3008, San Diego, CA, May 1992.
- 5-C
  B. A. Alhalabi et al., "BIST Architecture for FFT Processor", 1990 International Conf. on Defect and Fault Tolerance, Gernoble, France, November 1990.
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  B. A. Alhalabi et al., "Built-In-Self-Test Architecture for an FFT Wafer Scale Integration Processor", 1990 International Conf. on Microelectronics, pp 291-295, Damascus, Syria, October 1990.
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  B. A. Alhalabi et al., "Design Verification, Test Generation, and Fault Simulation of the WSI FFT MSA Cell", 21st Modeling and Simulation Conf., Pittsburgh, May 3-4, 1990.
- 2-C
  B. A. Alhalabi et al., "Partitioning Scheme and Built-in-Test for WSI FFT MSA Processor" IEEE VLSI Test Symposium, Section 10, Atlanta City, NJ, April 1-11, 1990.

4. Other (6)

- 30-P, CACS2000, (abstract only, not refereed)
  Bassem Alhalabi, "Remote Labs for Distance Education, a Step Beyond Simulation", CACS Centennial Computing Workshop, Lafayette, LA, Nov. 5-6, 1999.
- 29-P: (presentation only)
  M. Khalid Hamza, Bassem Alhalabi, Dan Kauffman, and Richard Knee, "A Leap of Creativity: Cognitive Remote Lab- A Step Beyond Software Simulation and

Learning" FERA 1999, The Florida Educational Research Association, 44rd Annual Conference, Deerfield Beach, FL November 10-12, 1999.

- 22-P: (presentation only)
  M. K. Hamza, B. A. Alhalabi, & S. Anandapuram, "The Aesthetic Solution to Distance Learning Challenges: Creative Digital laboratories" Presentation at FERA 1998, The Florida Educational Research Association, 43rd Annual Conference, Orlando, FL November 2-4, 1998.
- 13-O: (Ph.D. Dissertation)
  B. A. Alhalabi, "A Hybrid Chip Set Architecture for Artificial Neural Network Systems with On-Chip Learning and Refreshing", Ph.D. Dissertation, University of Southwestern Louisiana, May 1995.
- 8-O: (Unpublished Research Technical Report)
  B. A. Alhalabi, "A tutorial on topological properties of cube-oriented communication networks", University of Southwestern Louisiana, unpublished research paper, 1992.
- 1-O: (Master's Thesis)
  B. A. Alhalabi, "Digital and Analog Circuit Designs for Robot Axis Controllers" Master Thesis, Purdue University, Dec 1986.

Publications Links

- Actual paper links are available by publishers via their on-line listing. Please note that not all papers have been made available yet.
- http://ieeexplore.ieee.org/search/searchresult.jsp?refinements%3D4294752001%2C4294562309%26searchField%3DSearch_All%26queryText%3DB.+Alhalabi&sortType=desc_p_Publication_Year&pageNumber=1&resultAction=SORT
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Scholarly Citations

- A comprehensive list of citation is available on line via Microsoft Academic site.
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Sponsored Research and Fund Proposals

1. Submitted and Pending (Total 3) ($309K)

2. Funded and Active (Total 2) ($66K)

- 2.2
  - Agency: Mobile Help, CAKES
  - Project Title: Project: Component Evaluation for Physical Phenomenon: Motion and Movement
  - My Role: C0-Principle Investigator
  - Amount: $46,000 for One Year
  - Year: 2012-2013
- 2.1
  - Agency: Tabuk University
  - Project Title: Service Oriented Architecture for Interfacing RFID and GSM Protocol
  - My Role: Principle Investigator
  - Amount: $20,000 for One Year
  - Year: 2011-2012

3. Funded and Concluded (Total 11) ($508K)

- 3.9
  - Agency: Ocean Engineering, FAU
  - Project Title: MCM and Prognostics Monitoring
  - My Role: Principle Investigator
  - Amount: $145,919
  - Year: 2010-2011
- 3.8
  - CGC,
  - ($50,000 Grant) (Granted Aug 2010, Jul 2011)
  - PI: Ankur Agarwal
  - **CoPI: Bassem Alhalabi**
  - Title: Android Application Development
- 3.7
  - FAU, Presidential Initiative Research Award
  - ($22,500 Grant) (Awarded and Concluded, July 2000-2002)
  - **PI: Khalid Hamza**
  - CoPI: Bassem Alhalabi
  - Title: Remote Labs over the Internet
  - Purpose: To establish a research and development environment for engineering remote laboratories. This efforts will help establish web-based engineering courses.
- 3.6
  - International Travel Grant
  - $1500 to attend IEEE conference in Egypt, FAU DSR, 2001.

- 3.5
  - NSF, CISE
  - ($54,660 Grant) (Awarded and Concluded, June 1, 1999 – 2001)
  - **PI: Imad Mahgoub**
  - CoPIs: Bassem Alhalabi, Mohammad Ilyas, and Sam Hsu
  - Title: A Mobile Computing Laboratory
  - Purpose: To establish a research-oriented lab for conducting mobile computing related research. Projects include the implementation and evaluation data transfer and files systems for mobile computing and testing of wireless LAN.
- 3.4
  - SFWMD
  - ($85,000 Grant) (Awarded and Concluded, 1997-2000)
  - [South Florida Water Management District]
  - **PI: Maria Petrie**
  - CoPIs: Bassem Alhalabi, Marty Solomon
  - Title: Lake Okeechobee Ecosystem Study (LOES) Graphical User Interface
  - Purpose: To specify, develop, and implement GUI that facilitates direct access to LOES data by the district scientists and staff. The current user interface is text based and requires a high degree user sophistication. The proposed user interface will be graphical in nature, more intuitive, enabling the use of a mouse and video monitor to access data via a point-and-click paradigm.
- 3.3
  - Adcon Telemetry
  - ($4,350 Internship) (Awarded and Concluded, 1997-8
  - [Adcon is a manufacturer of wireless telemetry equipment in Florida]
  - **PI: Bassem Alhalabi**
  - Title: Graphical Software Interface and Control for Remote Telemetry Systems
  - Purpose: (confidential research agreement)
- 3.2
  - An Oil Production Company in Louisiana
  - ($65,300 Grant) (Awarded and Terminated, 1997
  - **PI: Bassem Alhalabi**
  - (confidential research agreement)
- 3.1
  - QMS Inc. ($77,500 Grant) (Awarded and Concluded, May - Aug 1996
  - [QMS is a large laser printers manufacturer in Alabama]
  - **PI: Bassem Alhalabi**
  - Title: Advance Senior-Level VLSI Laboratory
  - Purpose: To build an advanced laboratory for senior projects and graduate research in the area of computer engineering. It also includes development of new instructional courses.

4. Submitted but not Funded (19) ($9,585K)

Ph.D. Students

Total (10); Advisor (2); Completed as advisor (1)

- PhD-10 Ahmad AbuShanab, FAU, CE, 2010-2013, Committee Member
- PhD-09 Victor Herrera, FAU, CE, 2009-2014, Committee Member
- PhD-08 Randall Wald, FAU, CE, 2009-2012, Committee Member
- PhD-07 Janell Duhaney, FAU, CS, 2009-2012, Committee Member
- PhD-06 Wael Awada, FAU, CE, 2008-2014, Committee Member.
- **PhD-05 Eric Shufro**
  - FAU, CE, 2005-2013, Main Advisor.
  - Dissertation: "Brain-Computer Interface Embedded Solution"
  - Only Dissertation left. Currently on hold due to his full time job.
- PhD-04 Wilker Altidor, FAU, CS, 2009-2011, Committee Member
- **PhD-03 Ali Abul-Humos**
  - FAU, CE, 2002-2004, Main Advisor.
  - Dissertation: "Wireless Sensors Networks"
- PhD-02 Zhiwei Xu ,FAU, CS, 1998-2001, Committee Member.
- PhD-01 Mohamed Khalid Nezami, FAU, EE, 1996-2000, Committee Member.

Master's Students

Total (42); Advisor (16); Completed as Advisor (12)

- **MS-42 Vector Gallego**
  - FAU, CE, 2011-2013, Main Advisor.
  - Thesis:
- **MS-41 Clyde Carryl**
  - FAU, CE, 2010-2012, Main Advisor.
  - Thesis:
- **MS-40 Ravi Teja**
  - FAU, CE, 2010-2012, Co-Advisor.
  - Thesis:
- **MS-39 Joseph Gunde**
  - FAU, CE, 2010-2012, Main Advisor.
  - Thesis:
- **MS-38 Mark Bowren**
  - FAU, CS, 2010-2012, Co-Advisor.
  - Thesis:
- **MS-37 Abishek Duraiswam**
  - FAU, CE, 2010-2012, Main Advisor.
- MS-36 Mark Conatser, FAU, CE, 2009-2011, Committee Member.
- MS-35 Reza Waazim, FAU, CE, 2009-2011,Committee member.
- MS-34 Ernesto Cividanes, FAU, CE, 2008-2010, Committee.
- MS-33 Sebastian Possos, FAU, CE, 2008-2010, Committee.
- **MS-32 Sherif Fathalla**
  - FAU, CE, 2008-2010, Main Advisor.

    - Thesis:
- **MS-31 Joshua Nelson**
    - FAU, CE, 2008-2010, Main Advisor.
- **MS-30 Mark Rajan**
    - FAU, CE, 2008-2010, Main Advisor.
- **MS-29 Scot Barnard,**
    - FAU, CE, 2008-2000, Main Advisor.
    - Thesis:
- MS-28 Ricardo Castellanos, FAU, CE, 2008-2010, Committee Member.
- MS-27Chetan Tangadpelli, FAU, CE, 2004-2006, Committee Member.
- **MS-26 Vishal Shah**
    - FAU, CE, 2004-2005, Main Advisor, transferred
- MS-25Wael Awadeh, FAU, CE, 2004-2006, Committee Member.
- **MS-24 Eric Shufro**
    - FAU, CE, 2003-2005, Main Advisor.
    - Thesis:
- MS-23 Tam Phan, FAU, CS, 2001-2002, Committee Member.
- MS-22 Emanuel Sardina, FAU, CS, 2001-2002, Committee Member.
- MS-21 Jayanth Rajeevalochanam , FAU, CS, 2001-2002, Committee Member.
- MS-20 Laurent Nguyen , FAU, CS, 2001-2002, Committee Member.
- MS-19Angela Herzberg , FAU, CS, 2000-2002, Committee Member.
- MS-18 Mohammed Abushadi, FAU, CS, 2000-2002, Committee Member.
- **MS-17 Barbara Perez**
    - FAU, CS, 2001-2003, Main Advisor, Transferred
- **MS-16 Ali Abul-Humos**
    - FAU, CE, 2000-2002, Main Advisor.
    - Thesis: "Remote Labs, Motion and Friction Experiment"
- MS-15 Erik Geleyn, FAU, CS, 2000-2002, Committee Member.
- MS-14 Yuhong Dong, FAU, CS, 2000-2002, Committee Member.
- MS-13 Hao Zhu, FAU, CS, 1999-2001, Committee Member.
- MS-12 Reena Cherukuri, FAU, CS, 2000-2001, Committee Member.
- MS-11 Sai Babu Dara, FAU, CS, 1997-2001, Committee Member.
- MS-10 Chee Kian Lim, FAU, CS, 1999-2001, Committee Member.
- MS-09 Flecher D. Ross, FAU, CS, 2000-2001, Committee Member.
- MS-08 Fabio Costa, FAU, CE, 1999-2001, Committee Member.
- MS-07 Hamid Akbarian, FAU, CE, 1999-2001, Committee Member.
- **MS-06 Samer Aoudi**
    - FAU, CE, 1999-2001, Main Advisor.
    - Thesis: "Remote Labs: Java Interface for Netscape Browser"
- MS-05 Lakshmi Thampi, FAU, CS, 1998-2000, Committee Member.
- MS-04 Krishna Adusumilli, FAU, CE, 1997-1999, Committee Member.
- **MS-03 Sudeep Anandapuram**
    - FAU, CE, 1997-1999, Main Advisor.
    - Thesis: "Remote Laboratories for Distance Education"
- MS-02 Ilya Portnoy, FAU, CS, 1997-1999, Committee Member.
- MS-01 Qinxi Huang, FAU, CS, 1996-1998, Committee Member.