

Curriculum Vitae

of

Dr. Munir Ahmed Kulaib Al-Absi

Jan-2014

Table of Contents

1.1.	Statement on Services:	6
1.2.	Brief General Information:.....	6
1.3.	Area of Specialization	6
1.4.	Educational Background:	7
1.5.	Employment History:	7
1.6.	Industrial Jobs	8
1.7.	Recognition and Awards:	8
2.1.	Courses Taught:.....	9
	2.1.1 Graduate Courses Taught at KFUPM:	9
	2.1.2. Undergraduate Courses Taught at KFUPM and Sana' university:	9
	2.1.4. Coordinated Courses/Labs:	10
	2.1.5. Online course.....	10
2.2.	Laboratory Facilities Developed and Upgraded:	10
2.3.	Senior Design projects (EE-411):	11
2.4.	Co-operative training (EE-351) :	11
2.5.	Summer Training (EE-399):	11
2.6.	Graduate (Ph. D & M.Sc.) Theses:	12
3.1	Funded Research Projects:	13
	3.1.1. Ongoing and completed funded research projects:	13
3.2	Issued and Pending patent.....	14
	3.1.4. Issued.....	14
	3.1.5 Pending Patent.....	14
	3.4. Publications	15
	3.5. Technical Reports: (refereed reports).....	18
5.	Community Services	19
	5.1 <i>University Committees</i>	19
	5.2. <i>Departmental Standing committees:</i>	20
4.	Professional activities	21
4.1.	Conference Organization:	21
4.2.	Membership of Professional Organizations:.....	21
4.3.	Presented workshops and seminars:.....	21
	4.3.1. Workshops.....	21
	4.3.2. Technical Seminars Presented in KFUPM:.....	21
	4.3.3. Seminars Presented to Student-organizations in KFUPM:	21
4.4.	Proposed Short-courses:.....	21
4.5.	Attended workshops on Educational Tools and Methods:	22

4.7. Papers Reviewed:.....	22
4.7.1. Conference papers:.....	22
4.8. Funded Online Course Projects:	23
4.9. Consultancy:	23
4.10. Software skills.....	23
6. Other activities:.....	23



Munir Ahmed Kulaib Al-Absi

Address

P. O Box 1139, Dhahran31261, Saudi Arabia

Contact: Tel :+966 569059007

+966 3 8605354 night time

966 3 860 3696 day time

e-mail : mkulaib@kfupm.edu.sa

Personal information

Date of birth: August, 1960

Place of birth: Taiz, Yemen

Marital Status: Married

Language: English

1. Summary of experience record

My teaching experience

I have been teaching electronics courses for undergraduate and graduate levels for more than 13 years. This includes electronics I, II and instrumentation for undergraduate level and three course in master and Ph.D. level. Also I have been teaching industrial instrumentation for the last 8 years. I developed the lab and the online course for this course.

To improve my teaching skills, I attended some workshops/seminars organized by Deanship of Academic Development (DAD).

Statement on Research:

Since joining KFUPM, I am heavily involved in research. My area of interest is low-voltage low-power analog integrated circuits and systems. In this regard, I have been and still, involved in investigating the development of analog integrated circuits in the following areas:

- a. CMOS Computational Circuits. The goal of this research is to develop new circuits that can perform mathematical operations on analog signals without the need to move the digital domain. More focus is given to circuits design using MOSFET in subthreshold region for biomedical applications where low power and chip area are the key factors in the design.

Obviously this will save power, improve speed though at the price of accuracy.

- b. Programmable Current Mirrors. Current mirrors are very important basic building blocks in many integrated circuits e.g. operational amplifiers, operational transconductance amplifiers and current conveyors.
- c. Current-mode folding ADC
- d. Neural recording amplifier
- e. Very low frequency filters for ECG
- f. Minimization of error due to second order effects in MOS circuits designed using short channel MOSFETS

Over the years my efforts in research in the above mentioned areas resulted in publishing 38 articles in reputable refereed journal and refereed proceedings of international conferences. Also I acted as PI and as a CI in more than 9 funded projects and three projects are under process for funding. I have four issued patent from USPTO and six pending patent. I have supervised and act as committee member more than 10 Ph.D. and MSc theses

1.1.Statement on Services:

I have actively participated in organizing **3** conferences at KFUPM. I have served in standing and ad-hoc committees, chaired and participated in departmental committees. I worked as a member in gifted students programs for 10 years.

My active participation in teaching, research and services to KFUPM community is reflected in my official performance evaluation of 'Distinguished (A+)' for four academic years; 2004-2005, 2006- 2007, 2007-2008, 2008-2009,

1.2.Brief General Information:

I was born in Taiz, Yemen in 1960 and completed my early education from 'Al-Thourah High School (1978). I obtained my BSc and MSc from KFUPM, Dhahran, Saudi Arabia in 1984 and 1987 respectively. I spent 10 Years in Sana'a University teaching undergraduate courses. I obtained my Ph.D. from UMIST, UK in 2001. From 2002 till today I am assistant professor in EE department at KFUPM.

1.3. Area of Specialization

My research work is based on design, modeling, simulation and when possible experimental verification of analog circuits.

My research interest in analog CMOS integrated circuit design includes the design of low-voltage and low power CMOS analog computational circuit using MOSFET operating in strong and weak inversion. Such circuits are widely used in biomedical applications. In addition to my own research work, I am working on the design of practical circuits and systems to be used by other departments like chemistry department where I am designing mark-space a very low current source to be used in chemical reactions tests. Specific topics within the scope of my research include:

- a.* Design and implementation of frequency independent phase shifter.
- b.* Design and simulation analog computational circuits (Multiply, divide, squarer and square rooter).

- c. MESFET response to optical pulse.
- d. Low voltage and low power design using MOS in subthreshold.
- e. Current mode folding ADC.
- f. Compensation for second order effects in short channel MOSFETS.

1.4. Educational Background:

- a. 1997 - 2001: Ph.D. in Electrical Engineering and Electronics. University of Manchester Institute of Science and Technology (UMIST), Manchester, England. Thesis title: “New Biasing technique for MOS transistor and its application in analog IC design .” The ERSC of the UK have provided funds under ROPA grant Gr/ R39955 for total amount of 85,000 Pounds
- b. 1985 - 1987: MSc. in Electronics. KFUPM, Saudi Arabia. Dissertation title: ‘CMOS VLSI Design of Practical Circuits’
- c. 1979 - 1984: **BSc.** in Electrical Engineering, KFUPM, Saudi Arabia.

1.5. Employment History:

- a. October 2009- to date: Associate Professor at King Fahd University of Petroleum & Minerals (KFUPM), Dhahran 31261, Saudi Arabia).
- b. May 2002 – Sep 2009: ‘Assistant Professor at King Fahd University of Petroleum & Minerals (KFUPM), Dhahran 31261 Saudi Arabia.
- c. Aug 2000-April 2002: ‘lecturer’ at King Fahd University of Petroleum & Minerals (KFUPM), Dhahran 31261, Saudi Arabia.
- d. Sep 1997-to-Aug-2000: Ph.D. student and research associate Grade A, UMIST, UK.
- e. Sep 1989- Aug 1996: ‘Lecturer’ in Sana’a University, Yemen.
- f. Sep 1985 – June 1987: ‘Graduate student’ at King Fahd University of Petroleum & Minerals (KFUPM), Dhahran 31261, Saudi Arabia.

1.6.Industrial Jobs

- 1- Maintenance department YCC , Sana'a Yemen for one year
- 2- Maintenance manager Alkhwarezmi for computer, Sana , Yemen for one year
- 3- Manager , Aden for computers , Sana , Yemen
- 4- Owner and executive director , Munir computer, Sana, Yemen

1.7.Recognition and Awards:

- 1.9.1.1 Evaluation of Overall performance in KFUPM: Distinguished (A+)
- 1.9.1.2 Best departmental service awards for three consecutive years.
- 1.9.1.3 Five Patent award and five are pending patent
- 1.9.1.4 10 year service award

2. Teaching

2.1. Courses Taught:

2.1.1 Graduate Courses Taught at KFUPM:

- a. Analog integrated Circuit Design, EE542,
- b. Advance Analog Design ,EE 545,
- c. Analog VLSI design, EE642,
- d. Independent research EE606

2.1.2. Undergraduate Courses Taught at KFUPM and Sana' university:

- a. Industrial Instrumentation, EE434, (Senior
- b. Electronics II, EE303,
- c. Electronics I, EE 203,
- d. Electric Circuit, EE201,
- e. Fundamental of Electric Circuits, EE204, .
- f. Digital Design, EE200,
- g. 8085 Microprocessor,
- h. Introduction to EE , EE206

2.1.3. Undergraduate Laboratory's taught at KFUPM. More than 10 times

- a. Electronics I, EE203,
- b. Fundamental of Electric Circuits , EE 204
- c. Electric Circuits, EE201.
- d. Electronics II, EE303
- e. Digital Design, EE200,
- f. Industrial Electronics, EE 445.
- g. Industrial instrumentation EE 434

2.1.4. Coordinated Courses/Labs:

Coordinated Course and Laboratories	
Electronics I, EE 203	Course coordinator
Electronics II, EE 303	Course coordinator
Electronics I , EE 203	Lab Coordinator
Electronics II , EE303	Lab Coordinator
Digital Design, E 200	Lab coordinator

Organized two industrial visits (one to SABIC and one to ALYAUM news paper production line) for the senior students of KFUPM electrical engineering department.

2.1.5. Online course

Developed an Online course

1-PI- EE 434 Industrial Instrumentation” completed

2-CI- EE455 Industrial electronics “ in progress

2.2. Laboratory Facilities Developed and Upgraded:

As a chairman for laboratories supervision and development comoitte for 5years, I have carried out the following:

- a. Reorganizing the EE store to facilitate easy access to parts and components
- b. Re structure the senior project labs so that student can keep their project looked in safe place and no one can disturb their designs.
- c. Acquire up to date equipment(Function generators, Multimeters, Oscilloscopes, breadboards, ...etc
- d. Acquire parts required for senior project designs
- e. Developed the EE 434 laboratory and acquired LABview software and ELVIS boards
- f. Prepare the annual budget for the department and follow up the PR's

- g. Initiate dozens of purchase requisitions and evaluate them

2.3. Senior Design projects (EE-411):

Supervised more than 30 senior design project,

Samples of these projects are:

1. Car Parking Monitoring System
2. Direction Finder
3. Electronic Attendance System
4. Design and Implementation of Precise Current Source
5. Design and implementation of Micro-Liter injection system phase 1
6. Design and implementation of high voltage insulator failure alarm
7. Design of digital compass
8. Design and implementation of micro liter injection system phase 2
9. Design and implementation of wireless sensor node
10. LED drive for lightening applications
11. Communication over power line
12. Conveyor line control for water bottles
13. Many more....

2.4. Co-operative training (EE-351) :

Supervised around 20 coop students and examiner for many undergraduate students, taking their 28-week long applied co-operative (COOP) program in industrial environment. Sample project titles are:

- a. Instrumentation and power distribution in SIPCHEM
- b. Electrical System in SIPCHEM petrochemical Company
- c. Automatization of an environmental Burn-In test & Development of system test program for telephone devices
- d. Implementation of practical instrumentation power circuits and employment of power monitoring system.

2.5. Summer Training (EE-399):

I have supervised many undergraduate students and examined many others.

2.6. Graduate (Ph. D & M.Sc.) Theses:

	Student Name	Dept.	Deg.	Thesis Title	status	Role
1	Osam Fares	EE	Ph.D	Configurable Analog Building Blocks for Field Programmable system	completed	Committee member
2	Tawfiq Abdu Saleh	Cem	MSc	Application of DC DEP and mark- space biased DEP for the determination of cyanide	completed	Committee member
3	Farooq Sultan	EE	MSc	Custom design and implementation of a wireless sensor node	completed	Committee member
4	Yaqub Mahneshi	EE	MSc	CMOS circuit techniques for biomedical applications	completed	Committee member
5	Osama El-Ees	EE	MSc	The Current Amplifier and Its Applications in High-order Filter Designs	In progress	Committee member
6	Karamha Altameeme	EE	MSc	Design and Simulation of a Low Power and Low Voltage Current Mode Analog Computational Unit Using MOSFETs in Weak Inversion	completed	Supervisor
7	Eyas Alsuhaibani	EE	MSc	Design and simulation of CMOS analog multiplier & divider using MOS in weak inversion	Completed	Supervisor
8	Mehmood Shaker	EE	MSc	Design and simulation of current mode folding amplifier	Completed	Supervisor
9	Ibrahim Alsabban	EE	MSc	Design and simulation of current-mode CMOS comparator in subthreshold		Supervisor
10	Mohammed Al-Asli	COE	MSc	An On-Chip All-Digital Configurable Clock Generator for ASICs at Speed Testing	Completed	Committee member
11	Zain Khalifa	EE	MSc	Memristor	Completed	Committee member
12	Luqman Sulyman	EE	MSc	Image processing based contamination level monitoring of high voltage insulator	Completed	Committee member
13	Fares Sulaiman Al Ammari	EE	MSc	Optimum low power complex fiilter	Completed	Committee member
14	Ameen Ben ubad	EE	MSc	Analog configurable blocks	Completed	Committee member
15	Tri Bagus Susilo	EE	MSc	Intermixing Effects on Emission Properties of Quantum Disk-in-Nanowire (QD-NW) LED Structure	IP	Committee member
16	Naif Almutaire					

3. Research

3.1 Funded Research Projects:

3.1.1. Ongoing and completed funded research projects:

Have worked in ultrasound project for Marconi, UMIST, UK.

1. Based on the work reported in my thesis the research center in UK (EPSRC) provided us with 85991 sterling pounds (Grant # GR/R39955) to do a prototype design of the new biasing technique and some applications.
2. Co investigator in KACST funded project, Design of an Analog Processor Using CMOS Technology, Completed.
3. Co investigator in KACST funded project" Design of smart electronic guide for pilgrim" in progress
4. Co Investigator in KACST funded project on Construction of a New Detector for Ion Chromatography, HPLC, Flow Injection Analysis, and the Volumetric Titrations – Project # APR-26-72.
5. Co-Investigator in KACST funded project on Wireless Sensor Networks for monitoring applications: A Prototype Implementation.”
6. Co-investigator SABIC funded project "Designing of a Micro-Titrimetric Setup, and Investigating its Application for Titrimetric Reactions, 2009-2010
7. Principle investigator, Design and implementation of low voltage and low power analog computational unit, NSTP-started 1-11-2010
8. Principle investigator, Monitoring and control of high voltage insulator failure, Funded by KACST. started 1-10-2011.
9. Principle investigator, design and simulation of a current mode folding ADC, Funded by KACST, Started 1-9-2012
10. Principle investigator “LED drives for lightening applications” , KACST, 8-2014, IP
11. Design and simulation of a very low frequency filters” KFUPM, 9-2014, IP.

Submitted proposals in 2012and 2014

- 1- Neural recoding amplifier , NSTIP
- 2- Compensation of second order effects in short channel MOSFET , NSTIP

3.2 Issued and Pending patent

3.1.4. Issued

- Dr. Hussain N. Al-Duwaish, Dr. Al-Hamouz Z., Dr. Wail Mousa, Dr. Munir-A-AL-Absi, Dr. Salam A. Zummo “Contamination Monitoring of High Voltage Insulators” #**US8400504**, 2012
- 2-Farooq Sultan , Salam A. Zummo, Munir-A-AL-Absi, and Mr. Ahmar Shafi” , Custom Design and implementation of wireless sensor node, energy-efficient MAC and routing protocol “**#US8547982**, 2012
- 3-Munir Al-Absi, Shaker Mehmood & M.Taher Abuelma'tti, “A New CMOS Current-Mode Folding Amplifier” #**US8610614**, Dec 2013
- 4- Munir Al-Absi, Alaa Hussein and & M.Taher Abuelma'tti, “ A Low Voltage and Low Power Current-Mode Analog Computational Unit” #**US8610486**, Dec. 2013
- 5- Karama. M AL-TAMIMI & Munir A Al-absi, “A CMOS current mode logarithmic circuit”, issued **US 8779833**, June 2014.

3.1.5 Pending Patent

- 6- Munir-A-AL-Absi, Salam A. Zummo, and Uthman A. Baroudi “Monitoring and Early Warning Alarm System for High Voltage Insulator Failure”
- 7- Karama. M AL-TAMIMI & Munir A Al-absi, “A CMOS current mode logarithmic circuit”,
- 8- Karama. M AL-TAMIMI & Munir A Al-absi, “*Realization of a high dynamic range Exponential Current Generator using MOSFETs*”
- 9- Munir Al-Absi and Ibrahim As-sabban”” *A new Square-root Circuit using Short Channel MOSFETs*
- 10- Eyas Al-Suhaibani and Munir Al-Absi, “A compact CMOS current-mode analog multi-functions circuit,

3.4. Publications

Journal Publication

1. Eyas Al-Suhaibani and **Munir A. Al-Absi**, "A New CMOS Current-mode Controllable-Gain Square Rooting Circuit Using MOSFET in Subthreshold", Submitted, Journal of analog integrated circuits and signal processing, 2014
2. Eyas Alsuhaibani and **Munir A. Al-Absi**, "A Compact CMOS Current-mode Analog Multi-Functions Circuit", accepted, CSSP, 2014
3. **Munir A. AL-Absi** and Ibrahim As-sabban "A New Highly Accurate CMOS Current-Mode Four Quadrant Multiplier", Arabian Journal for science and technology, **Accepted**, Oct 2014.
4. **Munir A. AL-Absi** and Ibrahim As-sabban "A CMOS Current-mode Squaring Circuit free from Error Resulting from Carrier Mobility Reduction" Analog integrated circuit and signal processing" October 2014, Volume 81, Issue 1, pp 23-28.
5. Karam Al-Tamimi, **Munir A. AL-Absi** and M.Taher Abuelmaati "Temperature Insensitive Current-Mode CMOS Exponential Function Generator and its Application in Variable Gain Amplifier", Microelectronics Journal, Vo.45, Issue 3, March 2014 pp. 263-354.
6. Karam Al-Tamimi, **Munir A. AL-Absi** "A 6.13 μ W and 96dB CMOS Exponential Generator" IEEE Transaction on VLSI, Published online, Dec 2013.
7. **Munir Al-Absi**, Shker Mehmood and M. Taher Abuelma'atti, "A New CMOS Current-Mode Folding Amplifier", RadioEngineering, RADIOENGINEERING, VOL. 22, NO. 3, SEPTEMBER 2013, pp.892-898.
8. **Munir Al-Absi** and Karama Al-Tamimi, "A CMOS Current-Mode Log(x) and Log(1/x) Functions Generator, international journal of electronics, Vol. 101, Issue 8, 2014, pp.
9. **Munir A. Al-Absi**, Alaa Hussain & M. Taher Abuelmaatti, "A low voltage and low power analog computational circuit", Journal of circuits, system and signal processing, Feb 2013, Vol. 32, Issue 1 pp.321–331.
10. Abdallah M. Abulkibash, **Munir A. Al-Absi**, and Abdul aziz Nabil Amro, "Microtitrimetry by Differential Electrolytic Potentiometry," JOURNAL OF ANALYTICAL CHEMISTRY Vol. 68 No. 1, 2013, pp.57-60.
11. **Munir A. Al-Absi**, "Low Voltage and Low Power Current-Mode Divider and 1/X Circuit using MOS Transistor in Subthreshold", The Arabian Journal for Science and Engineering, Vol.38, Issue 9, pp. 2411-2414.
12. **Munir A. Al-Absi**, "A novel Highly Accurate Current Mirror," international Journal of electronics, Vol.96, No. 8, August 2009, pp. 781-786.
13. **Munir A. Al-Absi**, "A simple Low Cost Frequency-independent Phase shifter," The Arabian Journal for Science and Technology, Volume 34, No. 1B, April 2009, pp.145-152.
14. Mohammad A Alsunaidi and **Munir A. Al-Absi**, "Influence of Electrode Parameters on the Performance of Optically Controlled MESFETs" Optics & Laser Technology, 40 (2008), pp. 711-715.
15. Abuelma'atti M. T & **Munir A. Al-Absi**, "A CMOS Analog Cell and its Application in Analog Signal Processing," International Journal of Electronics, Vol. 93, April 2006, pp. 251-257.
16. Abuelma'atti M. T and **M.A. Al-Absi** "A Novel Single-Capacitor, Single-Current-Conveyor, Sinusoidal Oscillator," Electronic World, April, 2006, pp. 54-55.

17. Abuelma'atti M. T and **M.A. Al-Absi** , “ A Current Conveyor-Based Relaxation Oscillator as a Versatile Electronic Interface for Capacitive and Resistive Sensors” International Journal of Electronics ,Vol 92, No. 8, August , 2005, pp. 473-477.
18. Abuelma'atti M. T and **M .A. Al-Absi** “Analog CMOS Low-Voltage Current –Mode Implementation of Digital Logic gates” Electronic World, September, 2005, pp. 20-24.
19. Abuelma'atti M. T, S. M Al-Shahrani and **Munir Kulaib Al-Absi** "Simulation of a mutually coupled circuit using plus-type CCIIs ", International Journal of Electronics, Vol. 92, No. 1, January 2005, pp. 49–54.
20. Abuelma'atti M. T and **M.A. Al-Absi** “ Current-Controlled Sawtooth Generator” Active and Passive Electronic Components, Vol. 27, No. 3, Sep 2004, pp. 155-159.
21. Abuelma'atti M. T and **M.A. Al-Absi** “A Low-cost Dual-Slop Triangular /Square Wave Generator” Int. J of Electronics, Vol.91, No. 3, March 2004, pp. 185-190.
22. S. M. Al-Shahrani and **M.A. Al-Absi** " New Realization of CMOS Current Controlled Conveyors with Variable Current Gain and Negative Input Resistance" The 46th IEEE International Midwest Symposium On Circuits and Systems, 27-30 December, 2003.
23. M. A. Alsunaidi & **M. A. Al-Absi** “Effects of Electrode Spacing on the Response of Optically Controlled MESFETs” the NUSOD conference” June 1, 2003, Japan, pp 51-52.
24. **M. A. Kulaib**, G. F. Beckhoff, and Sadiq M. Sait, “Design of a Programmable Length Memory and its Controller,” International Journal of Electronics, Vol 65, No.2, November 1988, pp 923-932.
25. Sadiq M. Sait and **M. A. Kulaib**., “A CMOS Cell for Parallely Loadable Counters,” International Journal of Electronics, Vol. 62, No.6, 1987, pp 867-871.

Conference publications

1. **Munir A. Al-Absi**, Sagar K. Dhar, M. Taher Abuelmaatti and Mohanad A. Elhassan” , 21st IEEE International Conference on Electronics Circuits & Systems, France Dec 7-10,2014, pp.183-186
2. **Munir A. Al-Absi**, Alaa Hussain & M. Taher Abuelmaatti," A Low Voltage and Low Power Current-mode Field Programmable Analog Computational Unit", 2014 Middle East Conference on Biomedical Engineering(MECBME) , February 17-20, 2014,pp. 51-54.
3. **Munir A. Al-Absi** and Ibrahim As-sabban, “A New Current-mode Squaring Circuit with Compensation for Error Resulting from Carrier Mobility Reduction Paper ,” Eleco , Turkey Nov, 2013..
4. **Munir A. Al-Absi** and Ibrahim As-sabban, “Anew Square-Root Circuit Using Short Channel MOSFETs with Compensation for Error Resulting from Carrier Mobility Reduction,” Electronics and Optoelectronics Vol. 1, No. 1, March 2013, pp.6-8.
5. **Munir A. Al-Absi**, Shker Mehmood and M. Taher Abuelma'atti,” A New CMOS Current-Mode Folding Amplifier,” 10th International Multi-Conference on Systems, Signals & Devices (SSD), Tunisia, 2013.
6. **Munir A. Al-Absi** and Eyas Alsuhaibani, “ A compact CMOS current mode four quadrant multiplier and two quadrant divider,” 10th International Multi-Conference on Systems, Signals & Devices (SSD), Tunisia, 2013.
7. **Munir A. Al-Absi**, Alaa Hussain & M. Taher Abuelmaatti," A Novel Current-mode Ultra Low Power Analog CMOS Four Quadrant Multiplier”, International Conference on Computer and Communication Engineering (ICCCE 2012), 3-5 July 2012, Kuala Lumpur, Malaysia, pp. 13-17.

8. Karama AL-Tamimi and **Munir A. AL-Absi**, " CMOS Logarithmic Current Genarator," 2012 IEEE Student Conference on Research and Development, Malaysia Dec 2012, pp.67-71.
9. Karama AL-Tamimi and **Munir A. AL-Absi**, "An Ultra-Low Power High Accuracy Current-Mode CMOS Squaring Circuit " ,the 2012 International Conference of Electrical and Electronics Engineering, USA, OCT 2012, pp.872-874.
10. **Munir A. AL-Absi** and Karama AL-Tamimi, "A Current-Mode Controllable Logarithmic Function Circuit using MOSFET in Subthreshold" ,the 2012 International Conference of Electrical and Electronics Engineering, USA, Oct 2012, pp.844-846.
11. **Munir A. AL-Absi**, Alaa Hussain & M. Taher Abuelmaatti A Novel Current-mode Ultra Low Power Analog CMOS Four Quadrant Multipliert", International Conference on Computer and Communication Engineering (ICCCE 2012), 3-5 July 2012, Kuala Lumpur, Malaysia, pp. 13-17.
12. Karama AL-Tamimi and **Munir A. AL-Absi** , "A Novel Logarithmic Current-Controlled Current Amplifier (LCCA)", World Academy of Science, Engineering and Technology , 2011, pp. 496-498
13. **Munir A. AL-Absi** " Low voltage and low power CMOS current mode divider and 1/x Circuit " , 2010 International Conference on Electronic Devices, Systems and Applications (ICEDSA2010), Malaysia, April 12, 2010, pp. 241-243.
14. **Munir A. AL-Absi**, "Flexible Digital Scrambler/Descrambler System," WSEAS Transaction on Circuits and Systems, Issue 8, Volume 5, August 2006, pp 1376-1378.
15. **Munir A. AL-Absi** " An Improved Current Mirror Cell" the 4th ACS /IEEE international Conference on Computer Systems and Applications, March 8-11 , 2006, Dubai/Sharjah, pp. 472-474
16. Abuelma'atti M. T, A. Bentrchia, **M. A. Al-absi** and S. Al-shahra, " A new current-mode current-controlled current-conveyor based universal filter" WSEAS Transactions on Electronics, Issue 4, Vol 2, October 2005, pp.133-134.
17. M. A. Alsunaidi & **M. A. Al-Absi** "Effects of Electrode Spacing on the Response of Optically Controlled MESFETs" the NUSOD conference" June 1, 2003, Japan, pp 51-52.
18. M. A. Alsunaidi & **M. A. Al-Absi** "Microwave Performance of Optically Controlled MESFETs" International conference on Electronic Circuits ans Systems, 2003, Al-Sharjah, pp 1304-1307
19. John V Hatfield, **Munir Kulaib Al-Absi** and Kwet Seng Chai , " A Beam Forming Transmit ASIC for Driving Ultrasonic Arrays, " Eurosensors XIV Proceedings, 27-30 August 2000, Copenhagen, Denmark, pp 145-146.
20. **M. A. Kulaib**, G. F. Beckhoff, and Sadiq M. Sait, "CMOS Programmable Length First-In, First-Out Memory," Second International Conference on Micro-Electronics and Micro-computers, Menouf, Egypt, December 1987.

3.5. Technical Reports: (refereed reports)

1. Munir A. AL-Absi, Sagar K. Dhar, Muhammad T. Abuelma'atti and Mohanad A. M. Elhassan, "A New CMOS Current Mode Fast Folding Amplifier

- 1.
2. Munir A. AL-Absi, Muhammad T. Abuelma'atti and Alaa Hussein "Low voltage and low power analog computational unit" NSTIP, Feb 2013.
3. Abdullah Abuelkebash and Munir Al-Absi "Designing of a Micro - Titrimetric Setup and Investigating Its Applications for Titrimetric Reactions", June 2011.
4. Munir A. AL-Absi ...etc "EE applied program for Hafr Al-Abaten University" Saudi Arabia, Sep, 2011.
5. Salam Zummo, Munir A. Alabsi. Ahmedr Shafee, Masoud Al-Ahssan and Farooq Sulatn "Wireless Sensor Networks for Monitoring Applications: A Prototype Implementation", August, 2010
7. Abdalla M. Abulkibash, Bassam M. El Ali, Munir A. Al-Absi, "Construction of a new detector for ion chromatography, HPLC and the Volumetric reactions using flow injection system" KACST, 2009
8. Athoroyah College, electrical engineering program and laboratories My part was in the design of the laboratories and required equipment for All EE laboratories and participated in the design of the B.Sc. curriculum. , 2006
9. Hail University EE program, my parts was in laboratories manuals and required equipment, 2005.
10. Gifted student end of each program report, years, 2003-2012. My part as chairman for scientific committee is to report about all workshops and scientific lectures presented during the program. In some reports, my part was to report on student's projects and competitions in other activities.
11. Muhammed Taher Abuelma'atti and Munir A. AL-Absi, "Design of Analog Signal Processor in CMOS Technology", KACST, Dec, 2003.
12. Munir A. AL-Absi, 'A new biasing technique for the MOS transistor and its applications in analogue IC design ' Ph.D. Thesis, University of Manchester Institute of Science and Technology (UMIST)August, 2001.

5.1 University Committees

- a) Member , Student Affairs Committee 2004 to 2006
- b) Member of an ADD Hoc committee formed by the Supervisor of finance and administrative to look after 507 missing equipments in the EE department
- c) Member in ADD-HOC committee to look after plans for lab expansion and acquisition of equipment
- d) Member of Ad-Hoc committee formed by the finance supervisor to study the requirements of a Community College.
- e) Committee member, to propose EE BSc program for Hail University formed by the Vice rector of Academic affairs started
- f) Chairman, ADD HOC committee to receive a project in TE formed by the supervisor of technical and administrative affairs started Oct, 9 2000
- g) Chairman, ADD HOC committee to receive equipment for EE department formed by the supervisor of technical and administrative affairs started Oct, 9 2005
- h) Member ADD-HOC committee for space utilization formed by the technical supervisors
- i) Member of ADD-HOC committee to receive Building 59
- j) Chairman for sub-committee to receive electromechanical work in Building 59
- k) Chairman of ADD-HOC committee to receive extra work in building 59 for a total cost of more than 2,000,000
- l) Chairman for subcommittee in student affairs committee to look for the regulations in accordance with the rules.
- m) Member in committee to receive extra work in building 59
- n) Member of purchasing committee since 2011,2012,2013,2014
- o) Member faculty housing committee 2013
- p) Member convocational committee

5.2. *Departmental Standing committees:*

- a) Chairman, Lab Supervision and Development Committee, 2002, 2003, 2004, 2005, 2006, 2007, 2008
- b) Member, Self-Assessment Committee of Undergraduate Programs , 2002,2003,2004
- c) Member, Safety Committee, 2002
- d) Member, Student Advising Committee,2000, 2001, 2002
- e) Member, Department Services Committee,2000, 2001, 2002
- f) Member Industrial relation Committee, 2004

4. Professional activities

4.1. Conference Organization:

- a. Member in ICM2006 committee, 16-18 December 2006, KFUPM, Dhahran, Saudi Arabia.
- b. Member of local arrangement committee Saudi technical exchange meeting (STEM).

4.2. Membership of Professional Organizations:

Member, Saudi Council of Engineers

4.3. Presented workshops and seminars:

4.3.1. Workshops

- a) Introduction to PSPICE, Science club, KFUPM,
- b) Introduction to electronics, Gifted Student program, KFUPM, July 2003, 2004, 2006, 2007 & 2008.
- c) Introduction to sensors and applications, Gifted Student program, KFUPM, July 2003, 2004, 2006, 2007 & 2008.

4.3.2. Technical Seminars Presented in KFUPM:

- a) New biasing Technique for MOS transistor and it application in analog design, KFUPM, Sep 2000.

4.3.3. Seminars Presented to Student-organizations in KFUPM:

- b) Basic electronic circuits for beginners, Gifted student program, KFUPM, July 2003, 2004, 2006, 2007 & 2008.
- c) Many international and national conferences presentations

4.4. Proposed Short-courses:

- a) Electronics I for non-electrical Engineer
- b) Electronics for instrumentation engineer
- c) Industrial Instrumentation theory and practice
- d) Electronics II for non-electrical engineers

4.5. Attended workshops on Educational Tools and Methods:

- a) Introduction to WebCT, KFUPM
- b) Constructing Gifted students programs, (MOUHEBAH)
- c) Link research and teaching, KFUPM

4.7. Papers Reviewed:

4.7.1. Conference papers:

Reviewer for

1. AJSE 2007
2. المؤتمر الثاني لتخطيط وتطوير التعليم والبحث العلمي في الدول العربية " 2007
3. IEEE International Conference on Signal Processing and Communication , 2007
4. ICM2006
5. The 10th IEEE/CAS Sharjah University 2003
6. ISPAC 2008, The International Symposium on Intelligent Signal Processing and Communication Systems, Thailand, December 8-11, 2008
7. International conference on electronics and opto-electronics
8. Circuits , systems and signal processing
9. International journal of electronics
10. IEEE transaction on circuits and systems
11. 2nd International Conference on Electronics and Opto-electronics Science (ICEOS 2013)

4.7.2. Research Proposals:

- a) Reviewer for British council proposal in electronics
- b) Reviewer Funded project “ A state- of –the-Art VLSI design center “ King Saud University.

4.8. Funded Online Course Projects:

Developed online course “Industrial instrumentation EE 434”

4.9. Consultancy:

Consultant in SABIC funded project titled “ Mark Space and Dc Differential Electrolytic Potentiometric Combined with Flow Injection as a Potential Detector for the Determination of Cyanide: , Project # SAB/2005-19, Department, 2006.

4.10. Software skills

Ms office
PSPICE
HSPICE
Tanner tools

6. Other activities:

- a) Coordinate with the contractor of B59 in the arrangement of the benches in 23 laboratories in B59.
- b) Arrange with housing and office services the transfer of furniture from B14 to B59.
- c) Organizing and supervising Committee , Gifted students program at KFUPM, 2003, 2004, 2005, 2007, 2008 ,2009,2010,2011,2103

شهادة حضور

تشهد مؤسسة الملك عبدالعزيز ورجاله للموهبة والإبداع "موهبة" بأن

د. منير العبيسي

حضر البرنامج التدريبي للفرق التنفيذية لبرامج موهبة الإثرائية الصيفية المحلية في مدينة جدة في الفترة ٢٩ جمادى الأولى - ٢ جمادى الثاني ١٤٣٢هـ الموافق ٥-٣ مايو ٢٠١١م والذي نُفذ تحت إشراف مؤسسة الملك عبدالعزيز ورجاله للموهبة والإبداع مع تمنياتنا له بالتوفيق

المشرف العام على مبادرة البرامج الإثرائية



أحمد بن علي البلوشي

KINGDOM OF SAUDI ARABIA
Ministry of Higher Education

المملكة العربية السعودية
وزارة التعليم العالي

جامعة الملك فهد للبترول والمعادن
King Fahd University of Petroleum & Minerals

شهادة
Certificate of Service

This certificate is awarded to: منحته هذه الشهادة إلى:

الدكتور منير أحمد العيسى

فقد عمل الدكتور العيسى في خدمة الجامعة
in appreciation of his ten years of service to the University.

Rector of the University
Dr. Khaled S. Al-Sultan
April 2010

مدير الجامعة
الدكتور خالد بن سلطان
جمادى الأولى ١٤٣١ هـ

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



جامعة الملك فهد للبترول والمعادن
مؤسسة الملك عبدالعزيز ورجاله لرعاية الموهوبين
الملتقى العلمي الصيفي للموهوبين



شهادة شكر

تقدم إدارة البرنامج الإنترائي الصيفي الخامس للموهوبين بالشكر الجزيل لـ

الدكتور / منير بن عبده العبسي

على مشاركته في البرنامج الذي نُفذ في جامعة الملك فهد للبترول والمعادن بالظهران بدعم وإشراف مؤسسة الملك عبدالعزيز ورجاله لرعاية الموهوبين خلال الفترة من ٥/١٣ إلى ١٤٢٦/٦/١١ هـ الموافق ٦/٢٠ إلى ٦/٩/٢٠٠٥ م والذي كان لمشاركته الأثر الفعال في إنجاح البرنامج وتحقيق أهدافه.

و إدارة الملتقى إذ تشكره وتمنئ له مزيد التوفيق والسداد

مدير إدارة الشؤون العلمية

د. عبدالله بن محمد الجعيمان



رئيس الملتقى

د. حسين بن سالم العطاس

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



جامعة الملك فهد للبترول والمعادن
مؤسسة الملك عبدالعزيز ورجاله للموهبة والإبداع
الملتقى الإثرائي العلمي الصيفي



شكر وتقدير

إدارة الملتقى الإثرائي العلمي الصيفي السابق تشكر

د. منير أحمد العيسى

لمساهمته العالمة في إخراج الملتقى السابق المقام

بجامعة الملك فهد للبترول والمعادن بالظهران

برعايته مؤسسة الملك عبد العزيز ورجاله للموهبة والإبداع

خلال الفترة من السبت ٢٤ جماد الآخرة ١٤٢٩ هـ الموافق ٢٨ يونيو ٢٠٠٨ م

حتى الخميس ٢١ رجب ١٤٢٩ هـ الموافق ٢٤ يوليو ٢٠٠٨ م.

والهيئة إذ تشكره على ذلك تسأل الله له مزيد التوفيق والسداد

رئيس الملتقى

د. باسم بن محمد شاكر المدني

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



جامعة الملك فهد للبترول والمعادن
مؤسسها الملك عبدالعزيز آل سعود
الملتقى العلمي الصيفي للموهوبين



I.F.I.R.T
INSTITUTE FOR PLASMA, RESEARCH & TRAINING



شهادة حضور دورة

تشهد الهيئة الإشرافية للملتقى الإترائي العلمي الصيفي السابع أن

د. منير أحمد العيسى

قد حضر دورة تدريبية لمدة ١٥ ساعة في

(القراءة اليابانية السريعة)

للدكتور / عبدالإله الجامعي

التي أقيمت بجامعة الملك فهد للبترول والمعادن بالظهران صيف ١٤٢٩هـ
مع تمنياتنا له بمزيد من التوفيق والنجاح

رئيس الملتقى

ملقى الدورة

د. باسم بن محمد شاكر المدني

د. عبدالإله الجامعي



ICM 2006
KFUPM

18th International Conference on Microelectronics
King Fahd University of Petroleum & Minerals

CERTIFICATE OF APPRECIATION
AWARDED TO

Dr. Munir Al-Absi

for his valuable contributions
towards the success of ICM 2006
held on December 16-19 at
KFUPM, Dhahran, Saudi Arabia.

J. M. Bakhshwain

Chair, Organizing Committee,
Dr. Jamil M. Bakhshwain

شكر وتقدير

إدارة البرنامج الإثرائي العلمي الصيفي التاسع تشكر :

دمير بن أحمد العبسي

لمساهمته الفعالة في إنجاح البرنامج الإثرائي العلمي الصيفي التاسع والمقام بجامعة الملك فهد للبترول والمعادن بالظهران
برعاية مؤسسة الملك عبدالعزيز ورجاله للموهبة والإبداع
خلال الفترة من

٢٧ رجب ١٤٢١ هـ إلى الخميس ٢٤ شعبان ١٤٢١ هـ

الموافق ٩ يوليو ٢٠١٠ م إلى ٥ أغسطس ٢٠١٠ م

والهيئة إذ تشكره على ذلك ، تسأل الله له مزيدا من التوفيق والسداد

رئيس الملتقى

د. باسم بن محمد شكر العنزي

مؤسسة الملك عبدالعزيز ورجاله للموهبة والإبداع





شهادة حضور

لمنتدى الموهبة والإبداع GCF09

الذي عقد تحت رعاية صاحب السمو الأمير فيصل بن عبد الله بن محمد آل سعود وزير التربية والتعليم
تشهد مؤسسة الملك عبدالعزيز ورجاله للموهبة والإبداع "موهبة" بأن

د. منير أحمد العبسي

حضر منتدى الموهبة والإبداع GCF09 - ورشة عمل "تصميم برامج الموهوبين" بمركز الملك فهد
الثقافي بمدينة الرياض في الفترة من ١٠-١٢ ربيع الثاني ١٤٣٠ هـ الموافق ٦-٨ أبريل ٢٠٠٩ م
مع تمنياتنا له بالتوفيق

الأمين العام

د. خالد بن عبد الله السبتي



شهادة شكر وعرفان

برنامج موهبة الصيفي المحلي الثاني عشر يتقدم بالشكر الجزيل لـ

د. منير أحمد العبسي

لمساهمته الفاعلة في إنجاح البرنامج والمقام بجامعة الملك فهد للبترول والمعادن في الظهران

برعاية مؤسسة الملك عبدالعزيز ورجاله للموهبة والإبداع خلال الفترة:

من يوم السبت 1434 / 8 / 6 هـ الموافق لـ 2013 / 6 / 15 م وحتى نهاية يوم الخميس 1434 / 8 / 25 هـ

الموافق لـ 2013 / 7 / 4 م .

وإدارة البرنامج إذ تشكره على ذلك فإنها تسأل الله له التوفيق والسداد

رئيس البرنامج



د. سعيد بن علي القرني

جامعة الملك فهد للبترول والمعادن
مؤسسة الملك عبدالعزيز ورجاله للموهبة والإبداع
برنامج موهبة الصيفي المحلي الثاني عشر





جامعة الملك فهد للبترول والمعادن بالتعاون مع
مؤسسة الملك عبدالعزيز وبنائه للتوعية والإعلام



شكر و تقدير

إدارة البرنامج الاتحادي العلمي السعودي التامن تشكركم

و. منير العجمي

لمساهمته الفعالة في إنجاح البرنامج العلمي السعودي الاتحادي التامن
والتزامه بجامعة الملك فهد للبترول والمعادن بالطهران
برعاية مؤسسة الملك عبدالعزيز وبنائه للتوعية والإعلام
خلال الفترة من السبت 18 رجب 1420 هـ ، الموافق 11 يوليو 2009 م
حتى الأربعاء 16 شعبان 1420 هـ ، الموافق 5 أغسطس 2009 م
والهبة إن تشكركم على ذلك - إن شاء الله له مزيداً من التوفيق والسداد

رئيس البرنامج

د. باسم بن محمد الشافعي



شهادة شكر وتقدير

إدارة البرنامج الإثرائي العلمي الصيفي العاشر تشكر

د. منير أحمد العباسي

لمساهمته الفعالة في نجاح البرنامج الإثرائي العلمي الصيفي العاشر والمقام بجامعة الملك فهد
للبحوث والمعادن بالظهران برعاية مؤسسة الملك عبدالعزيز ورجاله للموهبة والإبداع

شمال الفترة من

السبت 1 شعبان 1432 هـ إلى الخميس 20 شعبان 1432 هـ

الموافق من 2 يوليو 2011 م إلى 11 يوليو 2011 م

والهيئة إذ تشكره على ذلك، تعالى الله به مزيداً من التوفيق والسداد

رئيس البرنامج

د. سالم بن سالم العباس



.. شكر و تقدير ..

تقدم الإدارة العامة للتربية والتعليم بالمنطقة الشرقية للمبتغين بخالص الشكر والتقدير

للدكتور **منير بن أحمد العيسى**

على مشاركته ضمن لجنة التحكيم في الأولياد الوطنية للإبداع العلمي ((إبداع)) ١٤٢٩-١٤٢٢ هـ

(للرحلة الثانية) المقام بفندق قصر الظهران بالمنطقة الشرقية

في الفترة من ٢٠١٩/٢/٢٠١٩ هـ.

متمنين له دوام التوفيق والنجاح -

مدير عام التربية والتعليم

د: عبد الرحمن بن إبراهيم المديرس

منير بن أحمد العيسى





المؤتمر العلمي الرابع

للطلاب وطالبات التعليم العالي بالمملكة

شهادة شكر وتقدير Certificate of Appreciation

To the one who elevated by his effort, and exceeded the
state of honor by his work

To Dr. **Muhammad Ahmad Abdulk Al-Abdi**
Research

Ministry of Higher Education appreciates your valuable
participation in the arbitration of students participation in
the fourth scientific conference of the male and female
students of Higher Education , which was held at Holy
Makkah Al-Mukarramah during the period 19-22/06/1414
H corresponding to 2014-02/3/2013. This participation
has significant effect on the success of the conference &
its appearance with each honorable level. Wishing you
more success and good luck.

إلى من سعى بجهده ، وارتقى من الشرف بعلمه وعمله

د. **مليح أحمد عبده العبدى**
البحرث

تتمن وزارة التعليم العالي ما قدمتموه من مشاركة قيمة في
تحكيم المشاركات الطلابية في المؤتمر العلمي الرابع
للطلاب وطالبات التعليم العالي المملكة بمكة المكرمة في
الفترة 19-22/6/1414 هـ الموافق 19-22/3/2013 م ، والتي
كان لها أثرها في إنجاح فعاليات المؤتمر ، وتتمنى لكم
مزيداً من التقدم بالرفي والنجاح

ومفيل الوزارة للتخطيط والمعلومات
رئيس اللجنة المنظمة للمؤتمر

أ. د. عبد القادر بن عبد الله الفلتوح



الوزير التنفيذي للمؤتمر

د. أيمن بن صالح الحري



$C^H_2O^E + A^E$
Center of Research Excellence for Scientific Co-operation
1999-2007

PIR
Manufacturing Institute of Technology

Certificate of Participation

This certificate is awarded to

Dr. Munir A. Al-Absi

For Participation in the 15 - 19 May 2011 Crash Course on

Hands-On Experience in Project-Centric Engineering Design Education


Director

Head of the Institute

Head of the Department

