CURRICULUM VITAE

Mahmoud Ahmed Abdelghany Khalil

Assistant Professor
Electrical Engineering Department (*NARS-Accredited Engineering Program*)
Faculty of Engineering, Minia University
61517 Minia, Egypt

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PERSONAL

Date of Birth:	July 12th, 1979
Place of Birth:	*Kingdom of Saudi Arabia (KSA), Dammam*
National ID:	27907128800139
Passport No:	A09693611
Nationality:	Egyptian

EDUCATION

Kyushu University, Fukuoka, JAPAN
Ph.D. in Electronics   **September 2011**
Thesis: "Development of Low Flicker-Noise and Low-Power Direct Conversion Receivers for 2.4/5.2GHz Wireless Communication Systems"

Minia University, Minia, Egypt
M.Sc. in Communication Systems   **September 2005**
Thesis: "A Design of Communication Channel Equalizer System using Neural-Networks"

Minia University, Minia, Egypt
B.Sc. Distinction with honor's degree   **May 2000**
Electrical Engineering, Electronics and Communication
Final Year Project title: "Controlling the world using PIC Micro-controller "
Grade: Distinguished

WORKING EXPERIENCE

Minia University, Minia, Egypt   **April 2014 ~ Now**
Assistant Professor, Electrical Engineering Department.
- Postgraduate Courses
    1. Microwave Devices, *M.Sc. Students*
    2. CAD tools for RF circuit simulations, *M.Sc. Students*
    3. Solid States (1), *M.Sc. Students*
- Undergraduate Courses
    1. Computer Data Architecture,   *1st year Mechatronics*
    2. Microprocessor Architecture   *3rd year Mechatronics*

3. Analog Integrated Circuits Design,	*4th year Electrical*	
4. Advanced Digital Circuits Design,	*4th year Electrical*	
5. Microprocessor Architecture,	*4th year Electrical*	
6. Digital Circuits Design,	*3rd year Electrical*	
7. Electronic Devices and Circuits,	*2nd year Biomedical*	
8. Electrical Circuits,	*1st year Biomedical*	
9. Communication Systems,	*3rd year Electrical*	
10. Electronic Devices and Circuits	*2nd year Biomedical*	

Kyushu University, Fukuoka, JAPAN **Postdoctoral fellowship member** Radio-Frequency Integrated Circuits (RFIC) & Microwave Communication Devices Laboratory. Department of Electronics, Graduate School of Information Science and Electrical Engineering, Kyushu University, Fukuoka, JAPAN	**October 2013** **~** **April 2014:**
Minia University, Minia, Egypt **Assistant professor at Communication and Electronics Department** <u>Teaching undergraduate students</u> 1-Analog Integrated Circuits Design, *4th year Electrical* 2-Digital Circuits Design, *3rd year Electrical* 3-Electronic Devices and Circuits, *2nd year Biomedical* 4-Electrical Circuits, *1st year Biomedical* 5-Communication Systems, *3rd year Electrical* 6- Computer Data Architecture, *1st year Mechatronics*	**December 2011** **~** **September 2013**
Kyushu University, Fukuoka, JAPAN **PhD Student** Kyushu University, Japan, with a fully funded scholarship from the Egyptian Government	**October 2007** **~** **October 2011**
Minia University, Minia, Egypt **Assistant Lecturer** Electrical Engineering Department, Faculty of Engineering.	**December 2005** **~** **September 2007**
Minia University, Minia, Egypt **Demonstrator and Master Course Student** Communication and Electronics Department, Faculty of Engineering.	**October 2000** **~** **November 2005**

RESEARCH EXPERIENCE

Minia University
 	
• **M. Sc. Students:**
   1- Eng. Ahmed Amer, RF VCO design
   2- Eng. Asmaa Rabea, High Quality RF on-chip inductors
   3- Eng. Nadia Salah, RF LNA design
   4- Eng. Fatma Ahmed, RF Mixer design
   5- Eng. Ahmed Sakr, ECG monitoring system
	Now

- **Research groups**
- Radio-Frequency Integrated Circuits (RFIC) & Microwave Communication Devices Research Group
  - Kyushu University, Fukuoka, JAPAN
- Member of Advanced Laboratory in Electrical Power Systems:
  - URL: http://mu.minia.edu.eg/hlab/
  -
- Research Fellow
  - o Kyushu University, Fukuoka, JAPAN **2013-2014**

SKILLS

Computer Skills, Programming Methodologies and Languages
- ICDL Certified.
- MATLAB®.
- Cadence ® Virtuous.
- Agilent Advanced Design System (ADS2009) and Momentum Simulator.
- Microsoft ® Windows (All versions).
- CentOS Linux.
- Visual Basic.
- AutoCAD.

MANAGEMENT AND ADMINISTRATION

1- **Executive Manager** *Minia University Computer Center (MUCC)*	**January 2014 ~ July 2015**
2- **Faculty Coordinator of Students Activities**	**October 2014~ Sept. 2015**
3- **Faculty of Engineering Information Technology (IT) Unit Manager.**	**Oct. 2012 ~ Now**

ACTIVITIES AND TRAININGS

- **Faculty Leadership Development Program (FLDP) training program, Minia University, Minia, Egypt:**
  1- *Use of Technology in Teaching.*
  2- *Quality Standards in the Education Process.*
  3- *Managing Time & Meeting.*
  4- *Communication Skills.*
  5- *Effective Presentation skills.*
  6- *University Code of Ethics.*

PUBLICATIONS

[1] **M. A. Abdelghany**, R. K. Pokharel, H. Kanaya, and K. Yoshida, "A Low Flicker-Noise High Conversion Gain RF-CMOS Mixer with Differential Active Inductor," *Proc. 2009 Korea-Japan Microwave Conference, pp. 141-144, Korea, April 2009.*

[2] **M. A. Abdelghany**, A.I.A. Galal, R. K. Pokharel, H. Kanaya, and K. Yoshida, "A Low Flicker Noise Direct Conversion Receiver for the IEEE 802.11a Wireless LAN Standard," *Asia-Pacific Microwave Conference Proceedings, pp. 1568-1571,Singapore, December 2009.*

[3] H. Kanaya, N. Koga, **M. A. Abdelghany**, R. K. Pokharel, K. Yoshida, "Low Flicker-Noise and Low Leakage Direct Conversion CMOS Mixer for 5GHz Application," *Asia-Pacific Microwave Conference Proceedings, pp 1515-1518, Singapore, December 2009.*

[4] N. Koga, **M. Abdelghany**, R. K. Pokharel, H. Kanaya, and K. Yoshida, "Discussion on Improvement of Linearity and Flicker Noise of a Down-Conversion Mixer for 5.2GHz Band Direct Conversion Receiver," *IEICE Technical Report, Vol. MW2009-137, pp 53-56, November 2009.*

[5] A.I.A. Galal, **M. A. Abdelghany**, R. K. Pokharel, H. Kanaya, and K. Yoshida, "A Low Power Low Flicker Noise Merged Balun LNA and Mixer for 5.2GHz Wireless LAN Receivers," *International Technical Conference of IEEE Region 10 TENCON2010, pp 1517-1520, Fukuoka, Japan, November 2010.*

[6] S. Murad, **M. A. Abdelghany**, R. K. Pokharel, H. Kanaya, and K. Yoshida, "High Linearity 5.2 GHz CMOS Up-conversion Mixer Using Derivative Superposition Method," *International Technical Conference of IEEE Region 10 TENCON2010, pp 1509-1512, Fukuoka, Japan, November 2010.*

[7] **M. A. Abdelghany**, R. K. Pokharel, H. Kanaya, and K. Yoshida, "Design of A Low Flicker Noise Highly Linear Front-End Receiver for Wireless LAN Applications, *7th Doctor Students Seminar in Kyushu University, August 2010, Fukuoka, Japan.*

[8] **M. A. Abdelghany**, R. K. Pokharel, H. Kanaya, and K. Yoshida, "A Low Flicker Noise, Highly Linear, Direct Conversion Receiver for 5GHz Wireless LAN," *2010 Asia Pacific Conference on Circuits and Systems (APCCAS 2010),pp 68-71, December 2010, Kuala Lumpur, Malaysia.*

[9] Ramesh K. Pokharel, Y. Yano, **M. A. Abdelghany**, H. Kanaya, K. Yoshida, "Design of High Linearity Low Flicker Noise 5.2 GHz Down-Conversion Mixer for Direct Conversion Receiver," *2010 Asia Pacific Conference on Circuits and Systems (APCCAS 2010), pp 64-67, December 2010, Kuala Lumpur, Malaysia.*

[10] **M. A. Abdelghany**, R. K. Pokharel, H. Kanaya, and K. Yoshida, "Low-Voltage Low-Power Combined LNA-Single Gate Mixer for 5GHz Wireless Systems," *2011 IEEE Radio Frequency Integrated Circuits (RFIC2011) Symposium, June 2011, Baltimore, Maryland USA.*

[11] **M.A. Abdelghany**, R.K. Pokharel, H. Kanaya, Keiji Yoshida, "A low flicker noise direct conversion receiver for IEEE 802.11g wireless LAN using differential active inductor," *Microelectronics Journal, Volume 42, Issue 2, February 2011, Pages 283-290.*

[12] **M.A. Abdelghany**, R.K. Pokharel, H. Kanaya, Keiji Yoshida," Flicker-Noise Reduction in RF CMOS Mixer using Differential Active Inductor," *Wiley Microwave and Optical Technology Letters. Volume 53, Issue 11, November 2011, Pages 2553-2556.*

[13] Ashraf A. M. Khalaf, M. M. Ibrahim, Hesham F. A. Hamed, and **M. A. Abdelghany**," ECG Noise Canceller: Studying and Performance Improvement under Different Algorithms," *16th International Conference on AEROSPACE SCIENCES & AVIATION TECHNOLOGY (ASAT - 16), May 2015, Cairo, Egypt.*

[14] Fatma M. Mahmoud, **M. A. Abdelghany**," Low Flicker-Noise RF CMOS Gilbert-Cell Mixer for 2.4GHz Wireless Communication Systems," *International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT), March 2016, India.*

[15] Ahmed M. Elshamy, Aziza I. Hussein, Hesham F. A. Hamed, **M. A. Abdelghany**, Ahmad Q. Alhamad, Hamdy M. Kelash," Optical Cryptosystem for Color Image Based

on Double Random Phase Encryption in Discrete Fourier Domain and Color Indexed Map," *International Journal of Computer Science and Information Security (IJCSIS) Volume 14, No. 8, August 2016.*

REVIEWER

- **CITEE 2012 Reviewer**:
  Conference on Information Technology and Electrical Engineering, July 12th, 2012, Yogyakarta, Indonesia.
- **JEC-ECC 2015 Technical Program Committee**
  (The Third International Japan-Egypt Conference on Electronics, Communications and Computers) Mar 16~ 18, 2015, Kyushu University, Fukuoka, Japan.

LANGUAGES

- **Arabic–** native language
- **English–** speak fluently and read/write
- **Japanese-** speak

MEMBERSHIPS

- Egyptian Association of Engineers, Cairo, Egypt
- Member IEEE