

Fadi R. Shahroury

IEEE Senior Member

PERSONAL DETAILS

Birth April 12, 1977
Address PSUT, P.O.Box 1438 Al-Jubaiha - Amman, 11941 Jordan
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EDUCATION

PostDoc. 2011
National KTH Royal Institute of Technology, Stockholm, Sweden
Electronics Engineer

Ph.D. 2008
National Chiao Tung University, Hsin-Chu, Taiwan
Electronics Engineer Research Area: Analog/RF IC Design.
Advisors: Prof. Chung-Yu Wu.
Dissertation: The analysis and design of CMOS current-mode RF Receiver Front-End Integrated Circuit.
Graduation date: 15-Sept. 2008.

M.Sc. 2002
National Chiao Tung University, Hsin-Chu, Taiwan
Electronics Engineer

B.Sc. 2000
Princess Sumaya University for Technology, Amman, Jordan

WORK EXPERIENCE

Department Head of Electrical Engineering Department 2020-present
Princess Sumaya University of Technology, Amman, Jordan

Responsibilities: I oversee the operation of three programs

- The BSc. in Electronics Engineering Program.
- The BSc. in Electrical Power and Energy Engineering Program.
- The MSc. in Electrical Engineering Program.

I am also the coordinator for the Electrical Engineering program for the ABET accreditation. Additional responsibilities include:

- Managing the day-to-day activities of the department.
- Setting course schedule and distributing faculty load.
- Coordinating the work for ABET accreditation for undergraduate programs.

- Chairing department meetings.
- Representing the department in higher councils.
- Hiring new faculty.
- Revising course plans and content.

Visitor Researcher

2018-2019

Queen's University Belfast, UK

Visiting Research Fellow in the School of Electronics, Electrical Engineering and Computer Science.

Associate Professor

2017-present

Princess Sumaya University of Technology, Amman, Jordan

Electrical Engineering Department.

Phoenix Academic Staff Exchange Program

2017

University of L'Aquila, L'Aquila, Italy

Responsibilities: During the Spring and Summer semesters of 2017, I worked on installing Cadence tools at the Department of Industrial and Information Engineering and Economics. In addition, I arranged a short course for Ph.D. students on how to design, simulate, and layout analogy circuit using Cadence tools.

Assistant Professor Professor

2008

Princess Sumaya University of Technology, Amman, Jordan

Electrical Engineering Department.

Responsibilities: I teach several undergraduate and graduate courses in the areas of Electronics Engineering, and I am conducting research in the areas of Analog/RF IC design.

Visitor Researcher

2005

Carleton University, Ottawa, Canada

Department of Electronics.

Laboratory Instructor

2000-2001

Princess Sumaya University of Technology, Amman, Jordan

Department of Electrical Engineering Responsibilities: I was responsible for teaching laboratory courses. The courses that I taught during this period are:

- Electronics Lab. 1
- Electronics Lab. 2
- Electronics Communication Lab.
- Circuits Analysis Lab 1
- Circuits Analysis Lab 2

Intern

Jun.-Sept.
1998

EGYPTIAN IRON & STEEL CO., Helwan, Cairo, Egypt

I was recommended by I.A.E.S.T.E (The International Association for the Exchange of Students for Technical Experience) to training in the Communication Department of EGYPTIAN IRON & STEEL CO. (only two students had the honor of my university from I.A.E.S.T.E in 1998)

RESEARCH INTERESTS

Low-voltage, low-power, and very high-frequency analog integrated circuits design in CMOS technology.

HONORS AND AWARDS

Best Teaching Award <i>Princess Sumaya University of Technology, Amman, Jordan</i>	2020
Senior Member IEEE	2015
Best Teaching Award <i>Princess Sumaya University of Technology, Amman, Jordan</i>	2014
Who's Who in the World <i>Listed in Marquis Who's Who in the World 2014 (31st Edition)</i>	2014
The second and third prize of the 7th national technology parade <i>Yarmouk University, Irbid, Jordan.</i>	2014
The second prize of the 4th national technology parade <i>Philadelphia University, Amman, Jordan.</i>	2011
Hisham Adeeb Hijjawi Award <i>Hisham Adeeb Hijjawi Award for Applied Science in the information technology and communication segment.</i>	2009
Excellent Presentation Award <i>International PhD Workshop on SOC 2006, Taipei, Taiwan.</i>	2006
Innovation Contest Award <i>International PhD Workshop on SOC 2006, Taipei, Taiwan.</i>	2006
Ph.D. First Rank <i>First rank in Ph.D. Student EE department of National Chiao-Tung University, Hsinchu, Taiwan</i>	2004
Prince El Hassan bin Talal Royal Watch <i>Princess Sumaya University for Technology, Amman, Jordan.</i> Prince El Hassan bin Talal Royal Watch Award by Princess Sumaya Bint El-Hassan	2000
B.Sc. First Rank	2000

First rank in undergraduate class of 2000, Princess Sumaya University for Technology, Amman, Jordan.

Honor List

1995-2000

Princess Sumaya University for Technology, Amman, Jordan.

I have been on the university honor list nine times from 1995-2000 and honored 51 hours from 172 hours as scholarships (the maximum hours allow as scholarship)

FELLOWSHIPS AND SCHOLARSHIPS

Full scholarships for Master and Ph.D. from National Chiao Tung University ,Hsin-Chu,Taiwan

TEACHING EXPERIENCE

Undergraduate courses taught:

- Electronics-I
- Electronics-II
- Communication Electronics.
- Digital Electronics.
- Solid State Electronics.
- Electrical Circuit Analysis-I.
- Electrical Circuit Analysis-II.
- Digital Electronics Fundamentals.

Graduate courses taught:

- Advanced Electronics.
- Communication Circuits and Systems.

SUPERVISION OF GRADUATE RESEARCH

Ishraq Riad

2015

“Design of Low voltage operational amplifier circuits in CMOS Technology

Thakir M. Al-Douri

2016

Design of an RF Front-End Receiver by Using Nano-Scale CMOS Technology

Mohammed Al-Khateeb

2019

PUBLICATIONS

- [1] H Abdellatif and **Fadi R. Shahroury**. “E-learning and Job Burnout among Higher Education Instructors during COVID 19 Pandemic”. In: *Academy of Strategic Management Journal* 21.1 (2022), pp. 10–16.
- [2] **Fadi R. Shahroury**. “E-Learning During COVID-19 Epidemic: Experience of a University from Jordan”. In: *Academy of Strategic Management Journal* 21.1 (2022), pp. 1–6.
- [3] H Abdellatif and **Fadi R. Shahroury**. “The Bright Side of COVID-19: Implications of the Pandemic on E-Learning and the Educational Sector- A deep look into the Action Plan of the Jordanian Ministry of Higher Education”. In: *Journal of Legal, Ethical and Regulatory Issues* 24.1 (2021).
- [4] H Abdellatif and **Fadi R. Shahroury**. “Workplace safety in higher education institutions during covid-19 epidemic: Insights from a developing country”. In: *Journal of Legal, Ethical and Regulatory Issues* 24.1 (2021), pp. 1–6.
- [5] Hani H. Ahmad, **Fadi R. Shahroury**, and Ibrahim Abuishmais. “A Multi-Output Multi-String High-Efficiency WLED Driver Using 40 nm CMOS Technology”. In: *Journal of Low Power Electronics and Applications* 11.4 (2021).
- [6] **Fadi R. Shahroury**. “The Design Methodology of Fully Digital Pulse Width Modulation”. In: *Journal of Low Power Electronics and Applications* 11.4 (2021), p. 41.
- [7] Alaa Zetawi, Osama Abdulhadi, **Fadi R. Shahroury**, Hani H Ahmad, and Amneh Akour. “Components and Specification of Rapid Shutdown for Roof PV Systems”. In: *2021 33rd International Conference on Microelectronics (ICM)*. IEEE. 2021, pp. 6–10.
- [8] Hani H Ahmad and **Fadi R. Shahroury**. “Design of a High Efficiency WLED Driver in 40 nm CMOS Technology”. In: *2020 32nd International Conference on Microelectronics (ICM)*. IEEE. 2020, pp. 1–4.
- [9] **Fadi R. Shahroury**. “Design of a low-power CMOS transceiver for semi-passive wireless sensor network application”. In: *Integration, the VLSI Journal* 71 (2020), pp. 95–104.
- [10] **Fadi R. Shahroury** and Ahamd A Mohammad. “Design of a passive CMOS implantable continuous monitoring biosensors transponder front-end”. In: *Microelectronics Journal* 90 (2019), pp. 141–153.
- [11] **Fadi R. Shahroury**. “A 1.2-V Low Power Full-Band UWB Transmitter with Integrated Quadrature Voltage-Controlled Oscillator and RF Amplifier in 130 nm CMOS Technology”. In: *Jordanian Journal of Computers and Information Technology (JJCIT)* 2.3 (2016).
- [12] **Fadi R. Shahroury**. “A framework for mobile learning adoption”. In: *Indian Journal of Science and Technology* 9.48 (2016), pp. 1–6.

- [13] **Fadi R. Shahroury** and Ishraq Riad. “The Design and Optimization of Low-Voltage Pseudo Differential Pair Operational Transconductance Amplifier in 130 nm CMOS Technology”. In: *2016 UKSim-AMSS 18th International Conference on Computer Modelling and Simulation (UKSim)*. IEEE. 2016, pp. 361–365.
- [14] Ibrahim Abdo, Mutasem Odeh, and **Fadi R. Shahroury**. “A low-power and high-data rate passive RFID transceiver using 28-nm CMOS technology”. In: *Microelectronics Journal* 46.12 (2015), pp. 1426–1433.
- [15] Mutasem Odeh, Ibrahim Abdo, and **Fadi R. Shahroury Shahroury**. “A Low-Power and High-Efficiency CMOS Transmitter for Wireless Sensor Network Application”. In: *2014 UKSim-AMSS 16th International Conference on Computer Modelling and Simulation*. IEEE. 2014, pp. 558–561.
- [16] Ibrahim Abdo, Mutasem Odeh, and **Fadi R. Shahroury Shahroury**. “A new modulation scheme for low power consumption and small size passive RFID tags”. In: *2013 IEEE conference on wireless sensor (ICWISE)*. IEEE. 2013, pp. 68–72.
- [17] **Fadi R. Shahroury**. “Data Mining in The M-Learning Domain”. In: *Trends in Innovative Computing* (2012).
- [18] Feras Al-Dirini, Mahmood Mohammed, Murad Mohammad, and **Fadi R. Shahroury**. “A novel source-body biasing technique for RF to DC voltage multipliers in 0.18 μm CMOS technology”. In: *2011 11th International Conference The Experience of Designing and Application of CAD Systems in Microelectronics (CADSM)*. IEEE. 2011, pp. 276–280.
- [19] Feras Al-Dirini, Mahmood Mohammed, Murad Mohammad, and **Fadi R. Shahroury**. “Low power passive RFID transponder frontend design for implantable biosensor applications”. In: *2011 IEEE International Conference on RFID-Technologies and Applications*. IEEE. 2011, pp. 56–63.
- [20] **Fadi R. Shahroury** and Chung-Yu Wu. “A 1-V RF-CMOS LNA design utilizing the technique of capacitive feedback matching network”. In: *Integration* 42.1 (2009), pp. 83–88.
- [21] Chung-Yu Wu, Wen-Chieh Wang, **Fadi R. Shahroury**, Zue-Der Huang, and Hao-Jie Zhan. “Current-mode design techniques in low-voltage 24-GHz RF CMOS receiver front-end”. In: *Analog Integrated Circuits and Signal Processing* 58.3 (2009), pp. 183–195.
- [22] **Fadi R. Shahroury** and Chung-Yu Wu. “The design of low LO-power 60-GHz CMOS quadrature-balanced self-switching current-mode mixer”. In: *IEEE microwave and wireless components letters* 18.10 (2008), pp. 692–694.
- [23] Wen-Chieh Wang, Chang-Ping Liao, Yi-Kai Lo, Zue-Der Huang, **Fadi R. Shahroury**, and Chung-Yu Wu. “The design of integrated 3-GHz to 11-GHz CMOS transmitter for full-band ultra-wideband (UWB) applications”. In: *2008 IEEE International Symposium on Circuits and Systems*. IEEE. 2008, pp. 2709–2712.
- [24] **Fadi R. Shahroury** and Chung-Yu Wu. “CMOS Current-Mode 60 GHz mixer”. In: *Ansoft 2006, Taipei, Taiwan*. Ansoft 2006. 2006, pp. 210–212.
- [25] **Fadi R. Shahroury** and Chung-Yu Wu. “CMOS LNA Using Capacitive Feedback Matching Network”. In: *IPS 006, Taipei, Taiwan*. IPS 006. 2006, pp. 24–28.
- [26] Chung-Yu Wu and **Fadi R. Shahroury**. “A low-voltage CMOS LNA design utilizing the technique of capacitive feedback matching network”. In: *2006 13th IEEE International Conference on Electronics, Circuits and Systems*. IEEE. 2006, pp. 78–81.

REFERENCES

Available upon request