

## Curriculum Vitae

### PERSONAL INFORMATION

Name: Rami Joseph Oweis  
Gender: Male  
Place of Birth: Zarqa, Jordan,  
Date of Birth: 15 May1970  
Marital Status: Married/two children  
Address: Biomedical Engineering Department  
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### EDUCATION

Ph.D. Biomedical Engineering, April 1999, Slovak University of Technology, Bratislava, Slovak Republic.  
Dissertation Title " Investigation of Inductorless Quartz Oscillators"

M.Sc. Biomedical Engineering, 1996, Slovak University of Technology, Bratislava, Slovak Republic.  
Thesis Title "Small Current-to-Frequency Converters"

B.Sc. Biomedical Engineering, 1994, Slovak University of Technology, Bratislava, Slovak Republic.  
Senior Project: Stabilized voltage-power supply.

### AREAS OF RESEARCH

Biomedical Electronics, Biomedical Instrumentation, Signal and Image Processing, Medical Waste Management

### EXPERIENCE

**Chairperson of the Biomedical Engineering Department at Jordan University of Science and Technology (JUST).**  
September 2005- September 2010

**Associate Professor**

Biomedical Engineering Department, Jordan University of Science and Technology, December 2008.

**Assistant Professor**

Biomedical Engineering Department, JUST, December 2003.

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**Full-time Lecturer**

Biomedical Engineering Department, JUST, September 2000-December 2003.

**Biomedical Engineer**

Cardiovascular Center, University Children Hospital, Bratislava, Slovak Republic, 1994-1995.

**Teaching Assistant**

Radio-electronic Engineering Department, 1996-1999, Slovak University of Technology, Bratislava, Slovak Republic.

**TEACHING ACTIVITIES**

Taught several courses in the field of Electric Circuits, Electronics, Biomedical Instrumentation, Biomedical sensors, Image Processing, Magnetic Resonance Imaging, Therapeutic Techniques, Design of Biomedical Devices and Systems, and Special Topics in Biomedical Engineering.

**SENIOR PROJECTS**

Supervised graduation (Senior) projects of over than 70 Biomedical Engineering Students with BME related topics.

**COMMITTEES**

Served as a member of various scientific and educational councils and committees:

- BME Department Council
- Engineering Faculty Council
- ABET Accreditation Committee
- BME Curriculum Committee
- Community Outreach Committee
- Strategic Planning Committee
- Scientific Research Committee
- Conferences and Symposia Committee
- BME Practical Training Committee

**MEMBERSHIP**

- IEEE
- The Jordanian Engineers Association.

**LEADERSHIP ACTIVITIES AND AWARDS**

- Led the BME department at JUST to obtaining accreditation by the Engineering Accreditation Commission of ABET, Inc.
- Participated in four cycles of the Faculty for Factory Program

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- Certificate of appreciation from USAID and Tatweer for valuable contribution to the Faculty for Factory Program.
  - Letter of appreciation from JUST President for ABET accreditation achievement.
  - Master and Doctoral Scholarship, Slovak University of Technology.

## PUBLICATIONS

1. **Rami J. Oweis** and Enas W. Abdulhay “Seizure Classification in EEG Signals Utilizing Hilbert-Huang Transform”. *Biomedical Engineering Online*, 2011, 10:38, DOI 10.1186/1475-925X-10-38.
2. Mohamad Al-Widyan, **Rami Oweis**, Hani Abu-Qdais, Mutaz Al-Muhtaseb and Sa'd Hamasha "Composition and Energy Content of Dental Solid Waste", *Resources, Conservation and Recycling Volume 55, Issue 2, December 2010, Pages 155-160.*
3. Naser Hamdi, **Rami Oweis**, Hamzeh Abu Zraiq, and Denis Abu Sammour "An Intelligent Healthcare Management System: A New Approach in Work Order Prioritization for Medical Equipment Maintenance Requests". *Journal of Medical Systems*, 2010.
4. Luay Fraiwan, Khaldon Lweesy, **Rami Oweis**, Husam Al Qablan, Mamdouh Hasanat "Medical waste management practices in southern Jordan", Accepted for publication in *International Journal of Environment and Waste Management*, 2009.
5. B. A. Albiss, M. Gharaibeh, I. M. Obaidat, N. Al-Rawashdeh, **R. Oweis**, N. Hamdi, M. K. Hasan Qaseer “Magnetotransport and structural properties of superconducting BPPSCO thick film on MgO substrate”, **Physica Status Solidi (a)**, Vol. 205, No. 8, Pages 1851-1854, 2008.
6. **Rami Oweis**, Alaa Barhoum “PIC microcontroller-Based RF Wireless ECG Monitoring System”. **Journal of Medical Engineering & Technology**, Vol. 31, No. 7, 2007.
7. **Rami Oweis**, Lily Hijazi "A Computer-aided ECG Diagnostic Tool. *Computer Methods and Programs in Biomedicine*, Volume 81, Issue 3, Pages 279-284 (2006). **ELSEVIER**.
8. **Rami Oweis**, Muna Sunna’ “A Combined Neuro-Fuzzy Approach for Classifying Image Pixels in Medical Applications”. **Journal of Electrical Engineering, Slovak Center of IEE**, Vol. 56, No. 5-6, 2005, 146-150.
9. **Rami Oweis**, Mohamad Al-Widyan, Ohood Al-limoon “Medical Waste Management in Jordan: A study at the King Hussein Medical Center”. *Waste Management*, 25 (2005) 622-625, Science @ Direct, **ELSEVIER**.
10. Pucik, J., **Oweis R.** “CT Image Reconstruction Approaches Applied to Time-Frequency Representation of Signals”. **EURASIP JASP** special issue on Advances in Modality-Oriented Medical Image Processing, volume 2003, No. 5, April 2003, p.p. 422-429.

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## CONFERENCES

1. **Rami Oweis**, Naser Hamdi, and Fahmi Abu Al-Rub "Assessment of Capstone Graduation Projects in Relation to ABET and Program Outcomes". Proceedings of the 5th International Forum on Engineering Education (IFEE2010), Engineering Education in the 21st Century-Quality, Globalization and Local Relevance. University of Sharjah.
2. Naser Hamdi, Fahmi Abu Al-Rub, and **Rami Oweis** "Incorporating Contemporary Issues in BME Curricula". Proceedings of the 5th International Forum on Engineering Education (IFEE2010), Engineering Education in the 21st Century-Quality, Globalization and Local Relevance. University of Sharjah.
3. Fahmi Abu Al-Rub, **Rami Oweis**, Naser Hamdi "Program Stakeholders Perception of ABET", Proceedings of the 5th International Forum on Engineering Education (IFEE2010), Engineering Education in the 21st Century-Quality, Globalization and Local Relevance. University of Sharjah.
4. **Rami Oweis** "The JUST Experience in reviewing study plans, teaching, learning, and student assessment under the framework of ABET". Accepted for presentation in National Conference For the Development of Study Plans, Teaching and Learning, and Scientific Research, Ministry of higher education, Jordan, 2010.
5. **Rami J. Oweis**, A. Al-Gharaibeh,, M. Al Hafi, and N. Qumsieh "Microcontroller-based peak expiratory flowmeter". Jordanian **International Biomedical Engineering Conference 2007**, November 2007, Amman, Jordan.
6. **Rami Oweis**, Alaa Barhoum "Simulation results of a wireless ECG-derived respiration Device", Third Cairo **International Biomedical Engineering Conference (CIBEC'06)**, December 2006, Cairo, Egypt.
7. **Oweis, R.**, Al-Otum, H "Intraframe Image Coding Using a Modified LBG Algorithm". **The first IEEE international Symposium** on Signal Processing and Information Technology, 2001, Cairo, Egypt.
8. Al-Otum, H., **Oweis, R.** "Image Vector Quantization for Interframe Coding Applications". **The first IEEE international Symposium** on Signal Processing and Information Technology, 2001, Cairo, Egypt.

## BOOK CHAPTERS

1. **Medical waste management in "HANDBOOK OF ENVIRONMENT and WASTE MANAGEMENT"**, **World Scientific Publishing Co. Inc.**
2. Ondracek, O., **Oweis, R.**, Simor, S., Farhat, M. "Signals and Systems, Practice. University Script". ES STU FEI Bratislava, second Edition 2002.

## REFERENCES

- Available upon request