

Faculty C.V.

1. **Name**

Amro A. Nour

2. **Academic Rank**

Assistant Professor of Electrical and Computer Engineering-Full Time

3. **Degrees**

- a) **Doctor of Philosophy (PhD) in Electrical Engineering-Electronics**,CNRS-XLIM Laboratory- Ondes et Systèmes Associés/Waves and Systems (OSA), University of Limoges, Limoges, France

- Graduation: January 2016
- Major: **High Frequency Electronics, Optoelectronics and Systems**
- Degree classification: **Graduated with Highest Honors.**
- Thesis: Study, Design and Realization of Circularly Polarized Compact Antennas. Optimization of Performances.

- b) **Master of Engineering in Electrical and Biomedical Engineering**, McMaster University, Ontario, Canada

- Graduation: June 2011
- Major: **Biomedical, Communications, Controls and Power**
- Degree classification: **Graduated with Highest Honors.**
- Project: Cognitive Radio, Designing and Implementing a Yagi-Uda Antenna.

- c) **Bachelor of Applied Science and Engineering**, University of Toronto, Ontario, Canada

- Graduation: June 2008
- Major: **Electrical and Computer Engineering (ECE)**
- Minor: **Biomedical Engineering**
- Graduation Project: Detection of arm movement using ECOG (Awarded top project)

4. **Service at this Institution**

Assistant Professor of Electrical and Computer Engineering (August 2018-Present).

5. **Professional Experience**

- Assistant Professor of Electrical and Computer Engineering, American University of the Middle East (AUM) Affiliated with Purdue University, Indiana, USA (June 2016-July 2018).
- Researcher, XLIM-University of Limoges, France (2012-2016).
- Teaching Assistant, McMaster University, Canada (2009-2010).
- Research Assistant, University of Toronto, Canada (2006-2008).
- Tutor, University of Toronto, Canada (2005-2006).

- f) Sales Engineer, Caterpillar, Kuwait-USA (2011-2012).
- g) Electrical/Project Engineer, ABB, Germany-Kuwait (2008-2009).
- h) Summer Trainee Electrical Engineer/Project Development, Schneider Electric, Egypt-France (Summer 2007).
- i) Summer Internship Electrical Engineer, Caterpillar, Kuwait-USA (Summer 2005).

6. Professional Registration

- a) Kuwait Society of Engineers, Kuwait.
- b) Ontario Society of Professional Engineers, Canada.

7. Publications

- a) Recent Major Journal Publications:

- **Nour, Amro A.**, et al. "A Tapered Fork-Shaped Antenna With Small Ground Plane for UWB Applications." *IJITN* vol.13, no.1 2021: pp.13-24. <http://doi.org/10.4018/IJITN.2021010102>
- **A. A. Nour** and F. Shubitidze, "Effect of Human Conductivity Distributions during Magnetic Nanoparticles Hyperthermia," 2021 Photonics & Electromagnetics Research Symposium (PIERS), 2021, pp. 462-466, doi: 10.1109/PIERS53385.2021.9694825.
- **Amro A. Nour**, Faycel Fezai, Marc Thevenot, Eric Arnaud, Thierry Monediere, "*A Circularly Polarized Square Microstrip Parasitic Antenna with an Improved Bandwidth*," Wiley: Microwave and Optical Technology Letter.
- Faycel Fezai, **Amro A. Nour**, Johann Sence, Regis Chantalat, Thierry Monediere, François Torres, Julien Lintignat, "*Compact Wideband Circularly Polarized Microstrip Antenna for GNSS Applications*," IEEE Antennas and Wireless Propagation Letters.
- Amin Behdad, **Amro Nour**, Arash Zereschkian, Cesar Marquez-Chin, Milos R. Popovic: Identification of Intended Arm Movement Using Electrocardiographic Signals. CoRR abs/1610.04967 (2016).

- b) Recent International Conferences & Proceedings:

- **A. A. Nour** and F. Shubitidze, "Alternating Magnetic Field Coils Optimization for Magnetic Nanoparticles Hyperthermia," 2021 *IEEE 26th International Seminar/Workshop on Direct and Inverse Problems of Electromagnetic and Acoustic Wave Theory (DIPED)*, 2021, pp. 191-194, doi: 10.1109/DIPED53165.2021.9552299.

- **A. A. Nour** and F. Shubitidze, "*Effect of Human Conductivity Distributions during Magnetic Nanoparticles Hyperthermia*," 2021 *Photonics & Electromagnetics Research Symposium (PIERS)*, 2021, pp. 462-466, doi: 10.1109/PIERS53385.2021.9694825.
- A. Jaesim, N. Siasi, M. Ababneh, M. Elkourdi and **A. Nour**, "Application-Specific Service Function Chain Provisioning in Heterogeneous Fog Networks," 2020 IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS), 2020, pp. 1-6, doi: 10.1109/ANTS50601.2020.9342810.
- **Amro Nour**, Girish Awadwhal, Ali Bostani, "A *Tapered Fork-Shaped Antenna With Small Ground Plane For UWB Applications*," IEEE, WTS 2019-World Telecommunication Symposium 2019.
- Islam Mansour, Abdullah AlKhashan, Ali Bostani, **Amro Nour**, "*Design and Fabrication of a Dual Band Low Profile Antenna for Smart Tracking in Oil Fields*," IET, Smart Cities Symposium 2018.
- Amal Almutairi, Anwar Alotaibi, Farah Ahmad, Hamdah, Alenezi, Ali Bostani, Girish Awadwhal, **Amro Nour**, "*Design and FE simulation of a new UWB Antenna for underground communications in Oil and Gas Industries and Smart Cities*," IET, 2018 International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT).
- **Amro A. Nour**, Ali Bostani, "*An Electromagnetic Band gap structure to stop the leakage from microwave cavities*," IEEE, 2017 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO) – 2017.
- **Amro A. Nour**, Ali Bostani, Girish Awadwhal, "*A Low Profile Dual Band Wideband Patch Antenna*," IEEE, 2017 IEEE MTT-S International Conference on Numerical Electromagnetic and Multiphysics Modeling and Optimization for RF, Microwave, and Terahertz Applications (NEMO) – 2017.
- **Amro A. Nour**, Faycel Fezai, Thierry Monediere, "*Comparison of Different Feeding Techniques of a Low-Profile Dual-band Circularly Polarized Microstrip Antenna*," IEEE, 9th European Conference on Antennas and Propagation EuCAP 2016.
- Faycel Fezai, **Amro A. Nour**, Johann Sence, Thierry Monediere, François Torres, Regis Chantalat, Stéphane Bila, Bernard Jarry, "*Low-Profile Dual-band Circularly*

Polarized Microstrip Antenna for GNSS Applications,” IET, 10th European Conference on Antennas and Propagation EuCAP 2015.

9. Membership in Professional Societies

- IEEE
- IEEE Antennas and Propagation Society Membership
- IEEE Communications Society Membership
- IEEE Microwave Theory and Technology Society Membership
- IET
- Internet Society

10. Patents, Honors and awards

- a) Awarded the Dartmouth College fellowship from the Thayer school of engineering.
- b) Awarded KFAS Grant (Kuwait Foundation for the Advancement of Sciences).
- c) Awarded AUK’s Collaborative Research Grant.
- d) Awarded AUK’s professional development Research Grants.
- e) Received AUM’s teaching award.
- f) Awarded AUM’s professional development Research Grants.
- g) Awarded private and governmental grants for major national and European union projects.

11. Courses taught

- a) Academic Courses
 - i. Core Courses:
 1. Electric Circuits
 2. Linear Circuit I
 3. Linear Circuits II
 4. Electronics
 5. Signals and Systems
 6. Engineering Electromagnetics
 7. Control Systems
 8. Senior Capstone I
 9. Senior Capstone II
 10. Transforming Ideas to Innovation I
 11. Transforming Ideas to Innovation II
 12. Introduction to Electronic Analysis and Design
 13. Electric and Magnetic Fields
 14. Systems and Measurements
 - ii. Electives:
 1. Measurement and Instrumentation
 2. Introduction to Biomedical Engineering
 3. Communications Systems
 4. Modern Antennas in Wireless Telecommunications

12. Other Duties

a) College level

- Academic Quality- Member
- Research Forum - Member
- Data Collection Committee – Member
- Engineering Hiring Committee – Member
- Telecommunication and Networking student technical team- Member
- Capstone evaluation committee – Member
- Adhoc Committee for ELEG Curriculum- Member
- Adhoc Committee for ABET Assessment for ELEG Program- Member
- Supervised Various Capstone Projects.

b) Institution level

- Professional Development (PD)-Member
- University Research Board – Member
- Working Group (Pedagogy and Teaching) - Chair
- Strategic Planning Advisory Committee (SPAC)-Member
- Library Committee- Member

13. Research

- a) Awarded KFAS Grant (Kuwait Foundation for the Advancement of Sciences).
- b) Awarded AUK's Collaborative Research Grant.
- c) Awarded various AUK's professional development Research Grants.
- d) Awarded various AUM's professional development Research Grants.
- e) Obtained private and governmental grants for major national and European union projects.

14. Participation in Specific Programs

- a) Workshop on "Teaching Future Skills". AUK, September 2022.
- b) Workshop on "CDIO and Producing the Next Generation of Engineers". AUK, April 2022.
- c) Workshop on "CDIO philosophy and the Aston Way". AUK, April 2022.
- d) Workshop on "Student-Centered Learning in a Disrupted Classroom". AUK, March 2022.
- e) Workshop on "How to write and publish papers in high impact journals." AUK, March 2022.
- f) Workshop on "How to Write a Successful Research Proposal". AUK, December 2021.
- g) Workshop on "Getting Your Research Noticed: From Keeping Track to Keeping Score in Academic Publishing". AUK, March 2021.
- h) Workshop on "Class Assessment Techniques: Quick Strategies for Checking the Cognitive and Emotional Pulse of Your Class". AUK, February 2020.