



Hamza Issa

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● ABOUT ME

Married (3 children: Raphael, David, and Jane)

"Tell me and I forget, teach me and I may remember, involve me and I learn"

Engineering curriculum developer, program coordinator (ABET-accredited since 2011), quality assurance officer, student mentor, student advisor, scientific researcher, innovative teacher, and research and learning methodology optimizer.

● WORK EXPERIENCE

1- TEACHING POSITIONS:

ASSOCIATE PROFESSOR (FULL-TIME) – ELECTRICAL AND COMPUTER DEPARTMENT, FACULTY OF ENGINEERING – BEIRUT ARAB UNIVERSITY (BAU) – 01/02/2012 – Current – DEBBIEH, LEBANON

Website: www.bau.edu.lb

Beirut Arab University BAU

QS 2026 Academic Ranking: 676.

QS 2026 Arab Region Ranking: 31.

On average basics: 16 hours per week (about 3.0 hrs post-graduate level, 10 lecture hrs for undergraduate level, 3.0 hrs Final year project). Student Evaluation is available upon request.

ASSOCIATE PROFESSOR (FULL-TIME) – ELECTRICAL ENGINEERING DEPARTMENT, FACULTY OF ENGINEERING – AMERICAN UNIVERSITY OF THE MIDDLE EAST – 31/10/2022 – 15/09/2025 – EGAILA , KUWAIT

American University of the Middle East AUM

QS 2026 Academic Ranking: 563.

QS 2026 Arab Region Ranking: 19.

On average basics: 16 hours per week (about 12 lecture hrs for undergraduate level, 4.0 hrs Final year project).

ASSISTANT PROFESSOR (FULL-TIME) - PHELMA (ÉCOLE NATIONALE SUPÉRIEURE DE PHYSIQUE, ÉLECTRONIQUE ET MATÉRIAUX) – GRENOBLE ALPES UNIVERSITY (UGA) – 01/09/2009 – 31/08/2011 – GRENOBLE, FRANCE

Website: <http://phelma.grenoble-inp.fr>

Grenoble Alpes University UGA

QS 2026 Academic Ranking: 321.

QS academic subject Ranking: Electrical & Electronic Engineering 173.

The yearly teaching load is 192 teaching hours

TEACHING ASSISTANT (PART-TIME) – GRENOBLE ALPES UNIVERSITY (UGA) – 01/09/2006 – 31/08/2009 – GRENOBLE, FRANCE

Website: <http://www.grenoble-inp.fr>

This is a teaching contract offered to the student who finishes 1st in ME. The total teaching load is about 200 equivalent lecture teaching hours.

2- JOBS, RESEARCH POSITIONS, AND INVITATIONS

CHIEF TECHNOLOGY OFFICER – AVANTI CONTRACTING AND GENERAL MAINTENANCE AND ADVANCE POWER DRILL – 01/02/2022 – 24/08/2022 – ABU DHABI, UNITED ARAB EMIRATES

Integrating new technologies within the company in order to enhance the general performance. Tasks related to Quality Management and Quality assurance were performed. The performed studies and tasks led to crucial decisions regarding the scope of work in the company.

RESEARCHER – PARALLEL JOB – 01/02/2012 – Current – DEBBIEH, LEBANON

Website: www.bau.edu.lb

Description: developing radiofrequency and millimeter-wave passive systems and devices for communication engineering applications. keywords: technologies: substrate integrated waveguide technology, PCB, integration, nanowires. devices: antennas, filters, crossovers, couplers, transmission lines. techniques: slow-wave, miniaturization, artificial intelligence, data mining, machine learning, applications: RF and millimeter wave, WiFi, WiMAX, 5G, electronics, artificial intelligence, energy harvesting

POSTDOCTORAL FELLOWSHIP (FULL-TIME) – IMEP-LAHC LABORATORY – 01/10/2011 – 31/01/2012 – GRENOBLE, FRANCE

INVITED RESEARCHER – IMEP-LAHC LAB, RFIC LAB, IETR LAB, AND IMEL LAB – 31/05/2010 – Current

I have been invited by four different research institutions for a short scientific stay (one month). Each stay had different scope. The research institutions are:

1- IMEP-LAHC Lab: Grenoble-France, 3 invitations, the scientific stays were funded by the AUF (Agence Universitaire de la Francophonie). Description: applying for common fund, investigation of technology limits, designing RF devices. Keywords: Cedar Project and CMIRA project. CMOS, slow-wave transmission lines, power dividers, couplers ...

2- RFIC Lab: Grenoble, France, 2 invitations, funded by the lab, Description: investigating innovative slow-wave transmission lines.

3- IETR Lab: Nantes, France, 1 invitation, funded by Erasmus project, Description: Research stay during which a collaborative work on a special type of modeling antennas was performed.

4- IMEL Lab: Athens, Greece, 1 invitation, funded by Demokritos research institution, Description: Expertise exchange, exploring the abilities of porous silicon for millimeter-wave applications. Keywords: Microelectronics, Porous Silicon, MIM capacitors, integration technologies, CMOS, 3D electromagnetic simulations, HFSS ...

3- INTERSHIPS – VOREPPE, FRANCE

Master 2 Internship: From 01/02/2006 to 01/07/2006, title: "Low Pass Filters for RF Applications: theory, design, and fabrication", Employer: RADIAL, Voreppe, France

BE internship: From 01/07/2004 to 15/08/2004, title: "Implementation and maintenance of GSM sites of telecommunication networks", Employer: Touch, Beirut, Lebanon

● EDUCATION AND TRAINING

31/03/2015 – CURRENT Beirut, Lebanon

PROMOTION TO ASSOCIATE PROFESSOR POSITION Beirut Arab University (BAU)

01/09/2006 – 13/11/2009 Grenoble, France

PH.D. Grenoble-Alpes University UGA (Formerly Grenoble 1 University)

Field of study Section 63: Electrical, Electronic, Photonics and Systems Engineering

01/09/2005 – 30/06/2006 Grenoble, France

MASTER OF ENGINEERING Grenoble-Alpes University UGA (formerly Polytechnic Institute of Grenoble)

Rank: 1/25 students, with **honors** (very good), **Average:** 16.46/20

Field of study Electrical and Electronics: Optical and Radiofrequencies, Specialization: Optics, Optoelectronics & Microwaves

01/09/2000 – 31/07/2005 Beirut, Lebanon

BACHELOR OF ENGINEERING Beirut Arab University (BAU)

Rank: 7/74 (in 5th year), **Honors:** Very good, **Average:** 16.5/20

Field of study Electrical and Computer Engineering, Communications & Electronics

● LANGUAGE SKILLS

Mother tongue(s): **ARABIC**

Other language(s): **C2: PROFICIENT USER**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C2	C2	C2
SPANISH	A1	A1	A1	A1	A1
FRENCH	C2	C2	C2	C2	C2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● ADMINISTRATION AND ORGANIZATIONAL SKILLS

CURRENT

Service Activities

Some of the roles I am/have occupied:

- 1- Coordinator of the Communications and Electronics Engineering program (ABET-accredited since 2011).
- 2- Secretary of the ECE department, Council of Faculty of Engineering, and of the program's advisory board.
- 3- BAU's Scientific Research Committee.
- 4- BAU's Quality Assurance Committee.
- 5- Responsible for the engineering faculty research activities (themes, strategies ...).
- 6- Member of the student activities department at the faculty of engineering.
- 7- Coordinator of the laboratories of the ECE department.

- 8- Participating in organizing several events such as the Engineering Projects Day, the faculty research workshop, the university open doors, the faculty welcome day, and several seminars and workshops.
- 9- Representing BAU in the Program for excellence Academy Cooperation Exchange (PEACEII) in Perpignan.
- 10- Responsible for the Junior Research team in the faculty.
- 11- Head of Exam Unit for the EE department at AUM.
- 12- Research committee member at AUM.
- 13- Students Development and Progress committee at AUM.
- 14- Engineering Postgraduates committee member at BAU.

● **OTHER SKILLS**

Other skills

Technical skills - Electrical characterization of various devices (Transmission lines, filters, amplifiers, power dividers ...) using Vector Network Analyzer and probe station - Good expertise of measuring techniques - Design methods of various devices - Electrical modeling - Fabrication of hybrid devices.

Computer skills - Operating System: Windows. - Computer software: MatLab, AltiumDesigner, Quartus, AutoCAD, Mathematica, Sonnet, Flux3D, Antenna Magus, HFSS, Momentum, Advanced Design System, Cadence, Microwave office, Electronic Work Bench, CST, ...

● **PUBLICATIONS**

Publications

H-index: 12

1 International Patent

** On Google scholar:

A total of 78 publications are the result of my research activities. The publications are distributed as follows:

- 33 in international journals with a selection committee.
- 23 in international conferences with a selection committee.
- 2 Book Chapter.

** On Scopus:

A total of 48 publications are the result of my research activities. The publications are distributed as follows:

- 27 in international with a selection committee.
- 19 in international conferences with a selection committee.
- 2 Book Chapter.

** Accepted and submitted:

- 2 Q1 Journal
- 2 Q2 Journal

● **TAUGHT COURSES**

PhD, Master, and undergraduate

** PG – Ph.D. Level: Wave propagation Transmission, Advanced Antenna Engineering, Advanced Analog Electronics.

** Master Level: Research Methodology, Propagation of Electromagnetic Waves in Different Media, Antenna Engineering, Microwave Engineering, Fields and Waves Propagation Engineering.

** Undergraduate: Microelectronics, Semiconductors, Integrated circuits, Millimeter Wave Integrated Circuit (MMIC) Design, Electronic Circuits, Electric Circuits, Signal processing, Feedback Control Systems, Communication Theory and Systems, Electricity and Magnetism, Electromagnetic Fundamentals, Antennas for remote sensing applications, Propagation and Antennas, Acoustics...

● **SUPERVISION**

PhD, Master, and Graduation projects

** PhD students: 6 graduated, 1 current

** Master students: 9 graduated

** Graduation Projects: 36+

● **HONOURS AND AWARDS**

2001

Best Project Award – Beirut Arab University

2014

Best Engineering Day Project Award – Beirut Arab University

2025

Best Innovative Project Award – American University of the Middle East
