Dr. Ashraf Suyyagh

Personal Data

Date of Birth:	31st May 1985
Work Address:	Department of Computer Engineering - Office 410 School of Engineering University of Jordan Queen Rania Street, Postal Code 11942, Amman, Jordan
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Academic Experience

Mar 2019 - Current — Assistant Professor at the University of Jordan, Amman
Department of Computer Engineering - School of Engineering

I have taught the following undergraduate courses:

- CPE533: Real-Time Computer Control Systems (Old Syllabus)
- CPE433: Computer-Controlled Systems (New Syllabus)
- CPE432: Computer Architecture and Organisation II
- CPE333: Embedded Systems
- CPE334: Embedded Systems Lab
- CPE313: Practical Numerical Analysis
- CPE311: Computer Applications Lab (Python Programming)
- CPE231: Digital Logic Design
- CPE101: Computer Skills for Engineers (C++ Programming)

Member of several department-level committees and projects:

- DeCAIR Erasmus+ Project (since 2022)
- Courses Improvement Committee (since 2023)
- Recruitment (Hiring) Committee (since 2022)
- Accreditation Committee (since 2019)
- Graduation projects Committee (2019), Head since 2020
- Tenders Committee (2019)

Mar 2016 - Jun 2016 — Part-Time Instructor at Vanier College, Montreal, Canada
Programming II - VA-420
Course introduces principles of Object Oriented Programming using Java: Classes, Inheritance, Interfaces, and Polymorphism. The course also covers an introduction to recursion and GUI components

Jan 2012 - May 2016 — Head Teaching Assistant at McGill University, Montreal, Canada
Microprocessor Systems - ECE426

Course introduces advanced principles of embedded and microprocessors systems design based on ARM Cortex-M4f processor. The course involves advanced topics on assembly/C programming, sensor fusion and integration, DSP and Real-Time Operating Systems (RTOS).

May 2012 - Dec 2015 | Co-Instructor, McGill, Montreal, Canada

Academic and Industrial technical workshops

Developed training material and co-instructed workshops (lab part) for academia and industry on the principles of microprocessors and embedded system design. The workshops are based on Cortex-M processors family, inertial MEMS sensors, and Real-Time Operating Systems (RTOS)

Dec 2007 - Dec 2011 | Full-time Teaching Assistant at University of Jordan, Amman

My responsibilities included tutoring, demoing, writing experiments, examining and grading students.

Embedded Systems

Advanced principles of embedded systems design and interfacing based on PIC microcontrollers. The course involved advanced assembly and C programming, human machine interfacing, principles of industrial and mechatronics design.

Computer Architecture and Design

The course introduces advanced principles of digital systems design using hardware descriptive languages (HDL). The course focused on implementing a MIPS pipelined processor, associated cache subsystem and memory interfacing or an embedded microcontroller based on the PIC16 series family.

Computer Networks

Advanced networking, switching, routing, LAN, WAN, NAT, VPN and network security based on Cisco products.

Jun - Aug 2007 | Summer Intern at Fastlink (now Zain Communications), Jordan

IT Department - Network Division and End User Support (EUS)

Configuring and troubleshooting of Cisco routers and switches, medium scale software deployment and troubleshooting

Education

Jan 2019 | PhD degree in Electrical and Computer Engineering, **McGill University**, Montreal, QC, Canada
Thesis: *Towards Energy-Efficient Real-Time Computing in Embedded Systems*
Advisor: Prof. Zeljko Zilic, Gpa: 4.0/4.0

Aug 2011 | MSc degree in Computer Engineering, **University of Jordan**, Amman
Thesis: *"Investigating Synthesis of Efficient Handwritten Arabic Word Recognition Engines on FPGAs"*
Advisor: Prof. Gheith Abandah
Gpa: 3.69/4.0, Top Graduate

Aug 2007 | Undergraduate Degree in Computer Engineering, **University of Jordan**, Amman
Gpa: 3.83/4.0, 3rd Top graduate of a class of 83

Aug 2003 | **Franciscan Sisters School**, Amman, Jordan
National General Secondary Examination Certificate (Scientific Stream)
GPA: 95.7%, 98.81% percentile (≈30,000 nation-wide students)

Awards, Scholarships, and Recognition

Apr 2015	Natural Sciences and Engineering Research Council (NSERC) of Canada Merit-Based Funding
Jan 2014	McGill's Graduate Excellence Fellowship Award (GEF)
Jan 2013	McGill's Graduate Excellence Fellowship Award (GEF)
Jan 2012	McGill's MEDA Award
Dec 2011	University of Jordan Scholarship to pursue PhD studies
Sep 2009	University of Jordan Scholarship to pursue MSc studies
Oct 2008	Middle East Technology Show (METS) 2008 Graduation Projects Contest, First Rank
Sep 2003	Jordanian Ministry of Higher Education Scholarship to pursue my BSc studies

Certificates

Jun 2013	IELTS (8.5/9)
May 2013	DSP Design Using System Generator, Xilinx Customer Education Certificate
Jan 2013	Test de Connaissance du Français pour le Quebec (TCFQ), Level B1
Oct 2010	Graduate Record Examination (GRE) Quantitaive: (760/800) Verbal: (500/800)
Oct 2010	Test of English as a Foreign Language (ToEFL) 107/120
Aug 2009	Cisco Certified Network Associate (CCNA) Instructor Certificate
Aug 2001	DELF (Diplôme d'Études en Langue Française) A1 and A2.

Languages

English:	Fluent
French:	Intermediate Knowledge
Arabic:	Mothertongue

Academic Activities

Primary Reviewer for the following Journals or Organisations:

JHE	Journal of Healthcare Engineering - since June 2022
Mitacs Canada	since July 2022
IEEE Access	since May 2020
CIT-JCIT	CIT. Journal of Computing and Information Technology - October 2018

Primary Reviewer for the following Conferences:

JEEIT 2019, 2021, 2023:	Jordan International Joint Conference on Electrical Engineering and Information Technology

Professional Affiliations

IEEE:	Institute of Electrical and Electronic Engineers
JEA:	Jordan Engineers Association

Computer and Engineering Skills

Very Good Knowledge:	C/C++, Java, Matlab
Good Knowledge:	Verilog, FPGAs, Python Linux, Bash Scripting, Assembly: ARM, PIC, x86, Git, Doxygen, SystemC, LaTeX
Basic Knowledge:	VBA, OpenMP, CUDA, makefiles, ROS
Specialised Software:	Eclipse, Keil uVision, MPLAB, Altera Quartus, Xilinx ISE, MATLAB, VmWare, MS Office

List of Workshops that I Instructed

April 2023	*Introduction to ARM Processors - Architecture and Programming, University of Nicosia, Cyprus (Scheduled)*
May, Dec 2015	*ISS Sensor System Integration, McGill University*
Jun 2015	*Modern Embedded Systems with ARM Cores, customised for the Department of Mechanical Engineering, McGill University*
May 2014	*ISS Sensor System Integration, McGill University*
Mar, May, Nov 2013	*Modern Embedded Systems with ARM Cores*
Nov 2014	McGill's Office of Continuing Studies, Courses offered to satisfy OIQ (Ordre des Ingénieurs du Québec) requirements for professional engineers
Sep 2013	*Methodologies and Tools for Embedded Multisensory Systems Based on ARM Cortex-M Processors* Embedded Systems Week, Montreal, QC, Canada
May 2013	Integrated Sensor Systems Training program, McGill University
Mar 2013	*Methodologies and Tools for Productive Multi-sensory System Design* CMC Days, Montreal, QC, Canada
May 2012	*Sensor Integration Using ST Microelectronics' iNEMO and ARM* CMC Week, Montreal, QC, Canada

List of Technical Workshops and Seminars that I attended

Feb 2023	Fundamentals of Robotics
Oct 2022	Control Systems and Robotics - University of Stuttgart
Jul 2022	Deep Learning - University of Genoa
Jul 2022	Computer Vision - University of Genoa
May 2022	Advanced Data Science - University of Granada
Mar 2022	Introduction To Data Science - University of Granada
Feb 2022	Introduction To Machine Learning - University of Granada
Dec 2021	Robotic Operating Systems (ROS) - University of Pisa
Dec 2018	Enhancing the User Experience with TouchGFX Advanced Graphics on the STM32 Workshop
May 2018	Explore the New STM32 Motor Control SDK v5.0 Workshop
Jul 2017	STM32L4 Discovery kit IoT node Hands-On Seminar
Jun 2014	STM32 Cortex-M4 Low Power DSP Workshop
Jun 2014	Development with Altera Nios II Workshop
Jun 2013	STM32F429 Seminar: High-performance Cortex-M4 MCU
Jun 2013	Kick Start to the ARM Cortex Processor Family Workshop

List of Academic Workshops and Seminars that I attended

Nov 2020	Using Moodle Platform (LMSystem/JUexams) for Online Exams
Apr 2020	Using MS Teams and MS Forms for Online Exams
Sep 2019	New Faculty Training and Development
Aug 2019	Supervision Of Postgraduate Students
Aug 2019	Project-Based Learning
Jul 2019	Using MCQs to Test Higher Order Thinking Skill

Publications

For a complete and most recent listing of my publications, kindly visit Ashraf Suyyagh's Google Scholar Profile

Personal Interests and Activities

British and Russian Literature, European History (with a focus on British, "Eastern Roman - Byzantine", and Russian), Ancient History (Antiquity), Western Philosophy, Western Classical Music, Byzantine Chants and Icons

Last updated February 2023