CURRICULUM VITAE

Personal Information

Name: Abdallah DABBOUSSI

Date of Birth: September 25, 1980 - Tripoli, Lebanon.

Marital status: Married

Address: Abou Samra, Zaytoun Street. Tripoli, Lebanon.

Tel: +961 6 218 400 Ext. 4408

Email: adaboussi@bau.edu.lb

Languages: Arabic, English, and French.

Current Situation

- **Beirut Arab University, Assistant Professor, Faculty of Science, Department of Mathematics and Computer Science, 2025-present, full time.**
  - Foster a dynamic and engaging learning environment for students.
  - Develop and teach comprehensive curricula that integrate hands-on labs and real-world case studies for courses including:
    - Computer Network, Software Engineering, Database Management Systems, Computer Security, Internet of things (IOT), Discrete Structures II, Web Programming, Senior Project I & II.

Academic Experience

- **Part-Time Assistant Professor | Various Universities (LAU, NDU, LIU, CNAM)**
  - Delivered a wide range of undergraduate and graduate-level courses across key computer science disciplines, including:
    - **Networking & Security**: Advanced Computer Networks, Network Administration and Security, Interconnection of Networks, Computer Security.
    - **Software Development & Systems**: Introduction to Programming (Java), Client-Server Architecture, Operating Systems, Database Management Systems (DBMS), Requirement Analysis and System Design
    - **Theory & Fundamentals**: Cloud Computing, Management Information Systems (MIS), Computer architecture, Computer Ethics, and Introduction to Computer Science.
    - **Communications**: Digital and Analogue Communication Systems I & II, Propagation and Antennas II, Information Theory, and Semiconductor Devices

- Developed curricula, led lectures, and designed assessments to evaluate student comprehension.
- Supervised and evaluated multiple Master's theses, guiding students through their research projects.

- Cisco Certified Academy Instructor (since 2013).
- Associate Professor at the Tripoli Technical Institute in the following courses (2004-2020):
- Data and Digital Communications, Network under UNIX, Computer architecture, Operating System, Client-Server architecture.

Educational Background

- 2019: **Ph.D. in Engineering Science**: **Telecom and Informatics;** Femto-st Lab- Université Bourgogne Franche-Comté, Université de Technologie de Belfort-Montbéliard; Doctoral school: Science for Engineers and Micro-technology.
- 2004: **Master of Science in Computer Engineering: Networking and System specialization,** University of Balamand.
- 2001: University Diploma in **Telecommunications and Networking Engineering,** Lebanese University, Faculty of Technology.
- 1998: Lebanese Baccalaureate - Experimental Sciences, Al Koliya School, Tripoli, Lebanon.

Scientific Thesis

- **Ph.D.Thesis**: **DEPENDABILITY APPROACHES FOR MOBILE ENVIRONMENT - Application on Connected Autonomous Vehicles (CAV)**: This thesis investigated the reliability of Connected Autonomous Vehicles (CAVs), focusing on sensor systems and communication protocols. Dedicated Short Range Communication (DSRC) employs a multichannel approach to support safety and non-safety applications. Safety applications require reliable transmissions, while non-safety applications require high performance and speed. Broadcasting of Basic Safety Messages (BSM) is one of the fundamental services in today's connected vehicles. For that, an analytical model to evaluate the reliability of IEEE 802.11-based V2V safety-related broadcast services in the DSRC system on the highway was proposed. An enhancement to the proposed model was made in order to increase the reliability of the V2V connection, taking into consideration many factors such as transmission range, vehicle density, safety headway distance on the highway, packet error rate, noise influence, and failure rates of communication equipment. Evaluating these problems leads to a sensitivity analysis related to reliability parameters, which helps further innovation in CAV and automobile engineering.
- **M.S. Project**: **Mobile Radar Antenna for Emergency System**: The purpose of the project is to design a mobile radar antenna consisting of three simple non-symmetric vibrators (dipole antennas),

located on three tracks. The designed antenna will be capable to send a message to a distance that can go up to 6000 Km, using a frequency range going from 3 MHz to 30 MHz, in this range we can use either the atmospheric wave for long distances or the ground wave for a small distance. Each antenna will be placed inside a car (automobile). This project includes the principle of radar telecommunication and the design of a linear array, which consists of those vibrators; Also, it includes a wide calculation of each element of the system and a study of the influence of the rotation device on the vibrator.

- **B.S. Project**: Configuration of Proxy Server under UNIX.

Publications, International Conferences

During my Ph.D., I published four peer-reviewed papers in the fields of Telecommunications and Informatics, with a focus on Systems and Software Engineering, Wireless Sensor Networks, Dedicated Short Range Communication (DSRC) reliability, Artificial Intelligence, Cybersecurity, and Safety for Connected Autonomous Vehicles (CAVs).

1. **A. Dabboussi**, R. Kouta, J. Gaber, M. Wack, B. El Hassan, "A New Approach for the Reliability of Vehicular Ad Hoc Networks," 2nd International Conference on Smart Applications and Data Analysis for Smart Cities, Casablanca, Morocco, Feb. 2018.
2. **A. Dabboussi**, R. Kouta, J. Gaber, M. Wack, B. El Hassan, "Dependability Overview for Autonomous Vehicles and Reliability Analysis for Basic Safety Messages," 6th International Conference on Digital Information, Networking, and Wireless Communications (DINWC), Beirut, Lebanon, 2018.
3. **A. Dabboussi**, R. Kouta, B. El Hassan, J. Gaber, M. Wack, "Reliability Block Diagram and Fault Tree for Intelligent Vehicular Networks (IVN)," IEEE Middle East & North Africa Communications Conference (MENACOMM), Univ. of Kaslik (USEK), Jounieh, Lebanon, Apr. 2018.
4. **A. Dabboussi**, R. Kouta, J. Gaber, M. Wack, B. El Hassan, "Reliability Analysis of Connected Automated Vehicles (CAV)," European Safety and Reliability Conference (ESREL), Trondheim, Norway, Jun. 2018.

Industry Experience

- Served as Acting Director and Consulting Engineer, specializing in IT solutions and cybersecurity, at Consolidated Consultancy Group. (2011-2022)
  - Led teams of engineers in designing, implementing, and configuring IT infrastructure.
  - Coordinated and led Presales Engineers: Directed presales engineers in designing IT infrastructure projects and preparing Bills of Quantities (BOQs).
  - IT Governance and Security: Identified IT governance and security strategies and policies for SMB companies.
- IT manager at the SAMA-link company for production and broadcast (2007-2008).

Scientific Activity

- Member of the Scientific Committee in the Order of Engineers (2011- 2016).
- Member of the official graduation thesis jury (Informatics Committee) for Vocational and Technical Education (LT-TS programs).

Training And Educational Courses

- 2019: Internet of Things (IoT) and Digital Transformation at the Cisco Networking Academy – Instructor Training Center at the Lebanese University.
- 2018: CCNA CyberOps at the Cisco Networking Academy -Instructor Training Center at the Lebanese University.
- 2017: LaTeX (professional text processing software) at the Campus numérique francophone CNF de la Direction Régionale Moyen-Orient de l'AUF.
- 2016: R Software for Statistics at the Campus numérique francophone CNF de la Direction Régionale Moyen-Orient de l'AUF.
- 2013: Instructor Certification for CCNA (Cisco Certified Network Associate).
- 2012: Moving from IPv4 to IPv6: Theory and Practice, at the Institut Supérieur des Sciences Appliquées et Economiques (ISSAE – Cnam Liban)

Community Service and Voluntary Work

- Member of the Board of Directors of the Lebanese Succor Association (since 2015)
- Member of the Board of Directors of the Medical Association (since 2016)
- Chairman, Disaster and Crisis Management Committee, Emergency and Relief Corps (2011–2018). Head of the youth department in the Emergency and Relief Corps (2009-2011).
- Emergency medical technician (EMT) at Emergency and Relief Corps (2006- 2012).