

## Curriculum Vitae (CV)

### General Information

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### Academic Qualifications

Degree	Specialty	Institution	Year
Ph.D.	Electrical Engineering: Industrial Computer Science and Automation	National Engineering School of Tunis (ENIT), University of Tunis El Manar	2010
M.Sc.	Industrial Computer Science and Automation	National Institute of Applied Science and Technology in Tunis (INSAT), University of 7th November at Carthage	2006
B.Sc.	Industrial Automation and Computer Engineering	Higher School of Sciences and Techniques of Tunis (ESSTT), University of Tunis	2004

### Academic Experience

Rank	Institution	Title	Duration
Assistant Professor	Faculty of Computing and Information Technology, Rafha, Northern Border University, Saudi Arabia	Consultant to the Dean Faculty for Academic Affairs in the Female Section	Mars 2023-present
Assistant Professor	Faculty of Computing and Information Technology, Rafha, Northern Border University, Saudi Arabia	Vice Dean in Female Section	2015 – Mars 2023
Assistant Professor	Faculty of Computing and Information Technology, Rafha, Northern Border University, Saudi Arabia	Academic Coordinator of Computer Sciences Department	2014-2015
Assistant Professor	Preparatory Institute of Engineering Studies, University of Tunis El Manar, Tunisia	Assistant Professor in Engineering Science and Technology	2010-2014
Lecturer	High Institute of Technology and Applied Sciences of Mateur	Lecturer in Computing	2005-2010

## Non-academic Experience

- July 2002: Training in Electricity and Gas Tunisian Society, project preparation on the post offices and the conversion stations Design.
- July 2003: Training in Electricity and Gas Tunisian Society, project preparation on Differential protection of transformers.

## Local and International Memberships

- 2022-present: Member of the Central Examinations Committee.
- 2020-present: Member of Student Advisory Council.
- 2019- present: Member of Research Unit in Computer Sciences and Cyber Security.
- 2018-present: Member of Statistics and information Committee.
- 2018-present: Member of Annual Report Preparation Committee.
- 2018-present: Member of Quality Supervisory Committee.
- 2018-present: Head of Student activities Committee.
- 2018-2019: Head of the Robotic Club.
- 2017- present: Member of Strategic Planning Committee.
- 2017-present: Member of Curriculum Committee.
- 2017-present: Head of Students Activities.
- 2017- present: Member of Disciplinary Committee for Female Students.
- 2017: Participate to the preparation of the ABET (Accreditation Board for Engineering and Technology) Visit: Working in Program Educational Objectives, Student Outcomes Establishment, Course Syllabus and Course File. The ABET has been successfully approved for FCIT in 2018 in Computer Sciences, Information Systems and Information Technology programs.
- 2014-present: Academic advisor.
- 2014-present: Evaluator for graduate student projects.
- 2014-2017: Head of Exams Committee.
- 2014-2015: Member of University Graduate projects Committee.

## Honors and awards

- A certificate of thanks and appreciation from the Deanship of Student Affairs for the outstanding participation in the success of activities and programs at the Northern Border University branch in Rafha during the 2021-2022 school year.
- A certificate of thanks and appreciation from the Vice Dean for Development, Quality and Community Service (the International Accreditation Project team at the College of Computing and Information Technology) for the college programs extension of the international academic accreditation ABET, 2020-2021
- A certificate of thanks and appreciation from the Raoum Association for Orphan Care in Rafha for the outstanding participation in the courses for the computer and the workshop in presentation course, February 16, 2020.
- Honor of Appreciation from the Dean of the Computing College in recognition of the Outstanding Direction, Leadership, and Contribution as the Vice Dean in Female Section, May 19, 2019.
- Certificate of Appreciation from the Dean of the Computing College in recognition of the

presentation “Graduation projects” workshop and the outstanding contributions as a Head of the Scientific and Cultural Activities Committee, December 4, 2018.

- Certificate of Appreciation from the Dean of the Computing College in recognition of the outstanding contributions as the Head of the Robotic club and the achievement of the project of Wireless Controlled Arduino Robot in the academic year 2018-2019.
- Certificate of thanks and appreciation from Northern Border University for the efforts and giving towards the completion of ABET academic accreditation requirements for the College of Computing and Information Technology, December 17, 2017
- Certificate of thanks and appreciation from the Vice Dean for University Studies at the university branch in Rafha for the outstanding participation in organizing the eleventh graduation ceremony for female students at the university branch in Rafha.
- Certificate of Appreciation from the Dean of the Computing College in recognition of the outstanding contributions as a chair of the Exams Committee and as a valuable member in the Strategic Planning Committee in the academic year 2016-2017.
- Faculty Excellence Award in recognition of the outstanding contributions as a faculty member in the Department of Computer Science, May 2015.

### Community Services

- Prepare a Workshop on Virtual Reality and Augmented Reality: February 2023.
- Visit to a Secondary School to sensitize students to choose the specialty for University: December 2022.
- Prepare a Workshop on Cyber Security: February 2020.
- Present Training on Power Point presentations: February 2020
- Program Preparation of Cyber Security Higher Diploma: July 2019.
- Visit to a Secondary School to sensitize students to choose the specialty for University: November 2019.
- Supervision of the project: Wireless Controlled Arduino Robot in Robotic Club: May 2019.
- Present a Workshop on Cybercrimes: October 2019
- Present Trainings on Android: April and March 2019.
- Visit to a Secondary School to sensitize students to choose the specialty for University: April 2018.
- Present training on Information Technology skills (Windows, Word, Excel, Power Point, Access, Internet Explorer): February 2018.
- Present training: How Present Graduate Project: April 2017.

### Workshops and Training courses

- Training program (formulation and measurement of learning outcomes for academic programs) at the Deanship of University Education Development: 22/05/2022
- Workshop on scientific references and their electronic indexing in scientific papers using Mendeley programming: 18/05/2022.
- Scientific Research Ethics Workshop at the Deanship of University Education Development: 20/4/2022
- Workshop for International Classification of Refereed Scientific Journals: 13/04/2022
- Workshop on Eligibility Requirements for Program Accreditation at the Deanship of University Education Development: 22/03/2022.
- Attended 25 hours a workshop relating of Course and program description, course and program report, field experience, on conducted by University Education Development: October 2019

## Conferences Attended / Participated

- International Conference on Electrical Systems and Automatic Control (JTEA), Mai 2008.
- International Conference on Electrical Engineering Design and Technologies (ICEED'T), November 2007.

## Taught Courses

- Information Security,
- Internet of Things,
- Wireless Data Networks,
- Computer Architecture and Organization,
- Operating systems,
- Internet Applications,
- Algorithms and Data Structures,
- Computing,
- C Programming,
- JAVA Programming,
- Android Programming,
- Multimedia,
- Circuits Electric Plans,
- Electronics and Automatic Control.
- Supervisor of Graduation projects: Android Platform (Android Studio, Eclipse), Matlab Environment, Arduino platform:
  - Restaurant Robot Server: 2023
  - Smoke and Gas Leakage Detector Using Internet of Things Concepts: 2023
  - Smart Home Automation using Internet of Things: December 2019.
  - Probabilistic Neural Network for Plant Classification by using Leaves: December 2018.
  - Android Application for Mobile phones reparation: "Technical Clinic": May 2017.
  - Android Programming from Design to Deployment Add and Remove Subjects Application for Students: May 2015.
  - Development Android Mobile Application: "Teacher Assistant": December 2015.
  - Learn Android Tutorial Application: December 2014.

## Research Interests

- Cyber security,
- Failures Diagnosis,
- Fault Tolerant Command,
- Signal Processing,
- Artificial Intelligence,
- Neural Networks,
- Machine learning,
- Modeling Systems.

## Publications

- Shunt faults detection and classification in electrical power transmission line systems based on artificial neural networks, COMPEL - The international journal for computation and mathematics in electrical and electronic engineering, Publisher: Emerald Publishing Limited, England, 5 April 2023, ISSN: 0332-1649.
- A Fault Tolerant Control for Sensor and Actuator Failures of a Non-Linear Hybrid System, the International Journal of Electrical and Computer Engineering (IJECE), Vol.8, No.5, October 2018, pp. 2864~2882, ISSN: 2088-8708.
- Classification Methods based on Pattern Recognition and on Neural Networks for Failure Detection: International Review on Computers and Software (IRECOS), Vol. 5. n. 3, May 2010, pp. 257-263, ISSN: 1828-6003, eISSN: 2533-1728.
- Supervised and Unsupervised Neural Classification for Multimodal Modeling of Complex Systems: International Reviews on Modeling and Simulations (IREMOS), Vol. 2. n. 5, October 2009, pp. 498-506, ISSN: 1974-9821, eISSN: 2533-1701.
- Support Vectors Machines for Failures Diagnosis: International Reviews of Automatic Control (IREACO), Vol. 2. n. 5, pp. 505-511, September 2009, ISSN: 1974-6059, eISSN: 2533-2260.
- Classification by the Probabilistic Neural Networks PNN and experimental validation of two validity calculation approaches, International Conference on Electrical Systems and Automatic Control (JTEA) with the collaboration of the Association of the Electrician Specialists of Tunisia "ASET" & IEEE France Section, Mai 2008.
- Probabilistic Neural Networks for the determination of model library: International Conference on Electrical Engineering Design and Technologies (ICEED'T), November 2007.