AMRI MARIEM

PERSONAL DETAILS

+21696488729

Tunis, Tunisia

mariem.mabrouki.fst@gmail.com

Computer skills

CST

ADS momentum

HFSS

WORD, EXCEL, Power Point

MATLAB/Simulink

MICROC,

ISIS, ARES

CoocoxCoIDE

STM32CubeMX

STM32CubeIDE

Languages

English: Ordinary

French: Ordinary

Arabic: Ordinary

ELECTRONICS DOCTOR

SAMMARY

Highly skilled and dedicated Electronics Doctor with important educational experience (10 years) in teaching students and developing courses, tutorials and practical works in the fields of embedded systems, electronics and telecommunication. Serious and hard-working expert in designing and developing a microwave circuits using CST, ADS and HFSS simulation tools. Good researcher at contributing research works in the fields of digital phase shifters, phased array antenna and frequency reconfigurable antenna.

PROFESSIONAL EXPERIENCE

Teaching Assistantship Oct.2024 – Janu.2025

The Higher private polytechnic Mediterranean school in Tunis

- Develop courses, Tutorials and Practical works
- Assist students according to a regular plan that includes lectures, discussions, audio-visual presentations, laboratory, and hands-on studies.
- Prepare, administer and correct exams

Teaching Assistantship Oct.2019 – Jul.2024

The Higher Institute of Applied Sciences and Technology in Sousse

- Develop courses, Tutorials and Practical works
- Assist students according to a regular plan that includes lectures, discussions, audio-visual presentations, laboratory, and hands-on studies.
- Prepare, administer and correct exams

Electrical and Electronics Trainer March 2019 – Juin 2019

The Institute Maghreban of Economic Sciences and Technology

- Training students to carry out practical work in electronics
- Preparing, conducting and marking examination

Teaching Assistantship Sep.2010 –Sep.2015

The Higher Institute of Computer Sciences in Kef

- Developing courses, tutorials and practical work
- Teaching students according to a regular plan that includes lectures, discussions, audio-visual presentations, laboratory and practical work.

ELECTRONICS DOCTOR

- Prepare, conduct and mark examinations
- Evaluate final year projects
- Attend staff meetings and
- teacher training workshops

Electronics Technician — Sep. 2008-March 2009

Express Telecom

- Design, development and testing of electronic components
- Write technical reports
- Streamlined service and give significant benefits to clients

CERTIFICATION

PhD in Electronics — 2011 – 2016

Faculty of Mathematical, Physical and Natural Sciences of Tunis, Tunis El Manar University

Master's Degree in Analysis and Digital Processing of Electronic Systems — 2008 – 2010

Faculty of Mathematical, Physical and Natural Sciences of Tunis, Tunis El Manar University

Bachelor Degree in Electronics Computer sciences — 2004 – 2008

Faculty of Mathematical, Physical and Natural Sciences of Tunis, Tunis El Manar University

Baccalaureate in Techniques — 2003 – 2004

College Bardo

SKILLS

- Develop research studies
- Develop courses, Tutorials and Practical works
- Designing circuits, computer simulations and measurements
- Important understanding of device properties
- Solid understanding of analog, digital circuits and control circuits.
- Solid understanding of Radio frequency circuits and system
- Develop applications in real time using Arduino and STM32F4

CONFERENCES AND PUBLICATION

SUBJECTS TAUGHT

1- Wave Propagation
2- Electricity of Electronics
3- Wave and Vibration
4- Transfer Data
5- Processing of Signals
6- Operating System Unix (I & II)
7- Cellular Networks
8- Computer Architecture
9- Digital Image Analysis
10- Applied Electronics
11- Embedded Target Programming (STM32F4)
12- Advanced Processor Architecture (ARM)
13- Introduction to Real Time Systems
14- DLX Architecture
15- Analog Electronics
16- Digital Electronics (Programming with Arduino)

AMRI MARIEM

ELECTRONICS DOCTOR

[1]Mariem Amir and Ali Gharsallah, "Design Of Frequency-Pattern Reconfigurable Patch Array Antenna for Radar Application ", Proc. of the International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), July 2023.

[2]Mariem Mabrouki and Ali Gharsallah, " Designs Of Frequency Reconfigurable Planar Bow-tie Antenna Integrated with PIN, varactor diodes and Parasitic Elements", Advances in Science, Technology and Engineering Systems Journal, 2021.

[3] Mariem.Mabrouki And A.Gharsallah, "Design and Implementation of a Wideband Phased Array Antenna Integrated With 2-Bit Phase Shifter", International Journal of Microwave And Optical Technology, November2020.

[4] Mariem.Mabrouki And A.Gharsallah, "Multi-band Frequency Reconfigurable Planar Bow-tie Antenna, " 5th International Conference on Advanced Technologies For Signal and Image Processing, September 2020.

[5]Mariem Mabrouki, Bassem Jmai, Ridha Ghayoula, Ali Gharsallah, " Miniaturization of a 2-bits Reflection Phase Shifter for Phased Array Antenna based on experimental realization", International Journal of Advanced Computer Science and Applications, juin 2017.

[6]Mariem Mabrouki,Ridha Ghayoula, Ali Gharsallah, " Design of a 6-bits Semiconductor Integrated Phase Shifter For Radar Applications ", International Conference on Advanced Technologies For Signal and Image Processing, March 2016.

[7] M. Mabrouki, S. Beldi, R. Ghayoula and Ali Gharsallah, "Modelling and design of 6bit digital phase shifter combined the switched and reflection topology", Wulfenia journal, No. 7, Vol 22, Jul 2015.

[8] M. Mabrouki, S. Beldi, R.Ghayoula and A.Gharsallah, "Design of 4-bits Switched Reflection Type Phase Shifter Using Semiconductor FET Switches", International Journal Of Microwave And Optical Technology, No.5, Vol.10, September 2015.

[9]Mariem. Mabrouki, Lassaad.Latrach, Ridha.Ghayoula And Ali.Gharsallah, " Modelling and Miniaturization of A 2-Bits Phase Shifter Using Koch Fractal Shape Micro strip-line" Journal of Engineering Research and Applications, July 2014.

[10]M.Mabrouki, A.Smida, R.Ghayoula, A.Gharsallah, "A 4 bits Reflection type phase shifter based on Ga As FET", World Symposium on computer Applications and Research, January 2014.