

Curriculum Vitae (CV) for Dr. Eng. Assal Alkhoder

Personal Information			
Full Name	Assal Alkhoder	Marital Status	Married/ Have three children
Date of birth	14/5/1978	Residence Address	Damascus Countryside/ Daheat AlSham
Nationality	Syrian	Mobile Phone	+963-997624237
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Qualifications			
High School Certificate / Scientific Branch		Received the certificate in 1997.	
Electrical Engineering (Electronics Branch)		2002. Albaath University / Syria / Homs	
Diploma of higher studies in Telecommunication		2003. Damascus University / Syria / Damascus	
Master Degree in Telecommunication		(Materiaux et dispositifs hyperfréquences pour les systèmes communicants) (High Frequency Materials and Components for Communication System) 2010 UBO Université / France / Brest	
Master Degree in Telecommunication		2015. Damascus University / Syria / Damascus	
PhD Degree in Telecommunication Engineering		2019 from the Higher Institute for Applied Sciences and Technology (HIAST) Syria / Damascus. Thesis title: "Microwave Link Enhancement using Adaptive Modulation".	

Practical Experience/Career Summary

- **In 2003, Engineer at Scientific Studies and Research Center (SSRC) (Institute of Electronics- Branch of Research and Development (BRD)).**
- **In 2020 till now, Researcher at SSRC (Institute of Electronics- (BRD)).**
- **Participation in various projects (Analysis, Design and Implementation) concerning the SSRC.**

Active and passive microwave circuits and components, RF and microwave communication systems

- **Teaching at the HIAST within the Master of Communications Program.**
 - **Radio and Microwave telecommunication Systems**
- **Teaching at Qasyoun University for Science and Technology, Faculty of Engineering – Telecommunication**
 - **Wave Propagation and Transmission Lines**
 - **Analog Communication**
 - **Electromagnetics**
 - **Electrical circuits - 1**
 - **Measurement and instrumentation**

• **Scientific publications: 6 articles in English and 5 articles in Arabic:**

1. Abd ElHadi Faoual, AbdelKareem Essalem, Assal AlKhoder, "Using developed dual mode triple conductor combline resonators in the design of dual-band filters" Damascus university journal 2024.
2. Abd ElHadi Faoual, AbdelKareem Essalem, Assal AlKhoder, "Development of a Dual Mode Comblaine Resonators using Triple Conductor Transmission Lines " AlBaath university journal 2024.
3. Abd ElHadi Faoual, AbdelKareem Essalem, Assal AlKhoder, "Development of a new type of Dual Mode Triple Conductor Comblaine Resonators" Damascus university journal 2024.
4. Moutz Al Baik, Fariz Abboud, Alaaeddin Sarhan, Assal Alkhoder, "Design and Implementation of Microwave Dual-Band Pass Interdigital Filter using an Analytical Approach" , Journal of Microwaves, Optoelectronics and Electromagnetic Applications (JMOe), 21(3):351-367, September 2022.
5. Moutz Al Baik, Fariz Abboud, Alaaeddin Sarhan, Assal Alkhoder, "Design of dual band microwave filter by using interdigital technology" , Damascus university journal 2022.
6. Alkhoder, A. Assimi, M. Alhariri, "Frequency Domain Model of Power Amplifier for OFDM signals." AEU - International Journal of Electronics and Communications, V10, 2019.
7. A. Alkhoder, A. Assimi, M. Alhariri, "A new Adaptive Rate IR-HARQ Combining with AMC." JOURNAL OF COMMUNICATIONS SOFTWARE AND SYSTEMS, VOL. 14, NO. 4, DECEMBER 2018
8. A. Alkhoder, A. Assimi, M. Alhariri, "Adaptive retransmission protocol based on mutual information", International Journal of Future Generation Communication and Networking (IJFGCN), Vol. 11, No. 2 (2018), pp.49-70.
9. A. Alkhoder, F. Aboud, "Half Mode Substrate Integrated Waveguide (HMSIW) Cavities" , Damascus university journal 2015.
10. Assal Alkhoder, & Fariz Abboud. (2015). DESIGN AND IMPLEMENTATION OF A QUARTER MODE SUBSTRATE INTEGRATED WAVEGUIDE (QMSIW) CAVITY FILTER. Journal of Microwaves, Optoelectronics and Electromagnetic Applications (JMOe), 14(1), 40–50.
11. O. Harfoush, K. Yazbek and A. Alkhoder, "Diplexer design for switched frequency diversity applications in wireless communications systems," 2009 Mediterranean Microwave Symposium (MMS), 2009, pp. 1-3.

Skills	
Softwares	• Using Microsoft Office Software in its Various Versions. • Working on the AutoCad Software for 3D Engineering. • Working on the CadStar Software for Circuit schematics and PCBs drawing. • Good use of the MATLAB Software with the latest versions. • Using the Software (Advanced Design Systems: ADS from Keysight) with the latest Version in Simulating and Designing circuits of High Frequency Systems. • Using the Software (Computer Simulation Technology: CST) with the latest Version in Simulating and Designing Complex Structure circuits of High Frequency Systems. • Using the Software (Advancing Wireless Revolution: AWR from National Instrument (NI)) with the latest Version in Simulating and Designing Complex Structure circuits of High Frequency Systems.
Practical Skills	• Analysis, design and implementation of RF and Microwave circuits, components and systems • Microwave links (all components) • Microwave receivers (all components) • Microwave power amplifiers • Microwave filters (single and multiband) and diplexers • Using measurement devices for RF and Microwave circuits and components like Vector Network Analyzer (VNA), Spectrom Analyzer and microwave and RF signals generators
Languages	• Arabic (Native Language). • English (Reading, Writing, Listening). • French (Reading, Writing, Listening).
Hobbies	
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