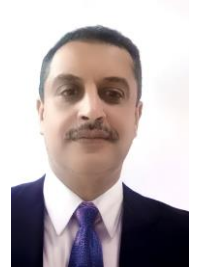


Biography



Name: Mohamed Abd El Latif Moawad (**IEEE Member**)
Date of Birth: 20/7/1969.
Employment:

- Lecturer in (Faculty of Air Defense- Pharos University - Alexandria Higher Institute of Engineering and Technology Arab Academy for Science and Technology AAST) till 2025.
- Egyptian Armament Authority Chief Assistance for Space Technology till 1/1/2022.

Nationality : Egyptian

Marital Status: Married

Address: 5 H Toson City, Abou-Kear, Alexandria, Egypt

Tel. : 01007532006/035619932

E-Mail Cdma2022@yahoo.com

Education

1987-1992

-Bachelor of Electrical Engineering

Military Technical Collage July- 1992.

2004-2008

- Doctor of Philosophy Degree in Electrical Engineering.

Faculty of Engineering, Alexandria University- 2008.

Theses

- Mohamed A.Latif, "Performance of Turbo codes in Nakagami Multipath fading channel," Master Degree Dissertation, Faculty of Engineering, **Alexandria University.**

- Mohamed A.Latif "A Novel Pulse Compression Technique in Modern Surveillance Radars," Philosophy of Doctor, Faculty of Engineering, **Alexandria University.**

Online Training

1- Online Tutorial on Test and Measurements of High – Speed Communications Signals, IEEE Communication Society Online Tutorials, USA, Online in March-2011.

2- Online Tutorial on RF Engineering, Propagation and Antenna, IEEE Communication Society Online Tutorials, USA, Online in March-2011.

3- One Powerful Day Online Conference Sponsored by Electronic Design and Power Electronics Technology (Session 1 : Maximizing Solar Inverter Efficiency through the use of Digitally Controlled Power Conversion , Session

Project Supervision

- 2: The State of Energy Harvesting, Session 3 : Designing your Portable Device to Run on Li-Ion Batteries New York ,USA, Online in April 2011.
- 4- Online Engineering Essentials webinar Sponsored by Electronic Essentials Webcast Elements of FPGAs: What Design Engineers Need to Know New York , USA, Online in 5-May 2011.
- 1- Design and Implementation of PCB Synchronizer Card for Radar Systems, Graduation Projects of Faculty of Air Defense, 2010, Alexandria.
- 2-Enhancement of radar range resolution using pulse compression codes Graduation Projects of Faculty of Air Defense, 2011, Alexandria
- 3- 3-D printer Graduation Projects of Alexandria Higher Institute of Engineering &Technology (*AIET*) Computer Engineering Department, 2013.
- 4-Design and implementation of Secure Smart home Graduation Projects of Alexandria Higher Institute of Engineering &Technology (*AIET*) Computer Engineering Department, 2014.
- 5- Many under graduate projects till 2025 last project entitled Design and Implementation of an Efficient Secured Smart Home System using ESP-23 controller and Mobile Application (Faculty of engineering Pharos University, Alexandria).

Research field Mobile - Radar Systems

- Effect of Error Correcting Codes on the Performance of Cellular Systems
- Waveform Generation, Pulse Compression Coding
- Analog and Digital Pulse Compression Techniques.

Publications

- [1] M. A. E. Abd El Hamid, E. -S. A. Youssef, A. M. Mokhtar, M. Madkour "Anew Minimum Peak Side lobe Codes in Radar Systems." IEEE AP-S International Symposium Honolulu, Hawaii, USA, pp.3812-3815, June 2007.
- [2] E. -S. A. Youssef, A. M. Mokhtar, M. Madkour, M. A. E. Abd El Hamid "A novel Multilevel Pulse Compression Codes," International Conference on Computer Theory and application (*ICCTA*) Alexandria, Egypt, pp.342-346, September 2007.
- [3] El-Sayed A. Youssef, Amr Mokhtar, Mohamed Madkour, Mohamed Abdel-Latif "Simulation of Pulse Compression Performance under Influence of

- Background Noise in Modern Surveillance Radar." International Conference on computer engineering and systems, Egypt, pp.205-208, November 2007.
- [4] Alaa El-Din Sayed Hafez, Mohamed Abd-El-Latif. "Efficient NLFM Waveform for High Resolution Surveillance Radar "International Conference on Computer Theory and application (*ICCTA*) Alexandria, Egypt, PP.165-169, October 2011.
- [5] Mohamed Abd El-latif, Alaa El-Din Sayed Hafez, Sami Darwish. "Performance of Parallel Concatenated Convolutional Codes (PCCC) with BPSK in Nakagami Multipath M-Fading Channel", 2nd International Conference on Advanced Science, Engineering and Information Technology (*ICASEIT*), Malaysia, Dec 2011.
- [6] Mohamed Abd El-latif, Alaa El-Din Sayed Hafez, Sami Darwish. "Performance of Parallel Concatenated Convolutional Codes (PCCC) with BPSK in Nakagami Multipath M-Fading Channel", International Journal on Advanced Science, Engineering and Information Technology (*IJASEIT*), Malaysia, Vol.2.No.5.pp. 51-56, Jan2012.
- [7] Alaa El-Din Sayed Hafez, Mohamed Abd-El-Latif "New Radar Pulse Compression Codes by Particle Swarm Algorithm"IEEE Aerospace conference Big Sky Montana, USA March 2012.
- [8] Sami H. Darwish, Mohamed Abd El-latif, and M.Morsy "Micro –Doppler Detection and Target Identification using Artificial Neural Network "IEEE Aerospace conference Big Sky Montana, USA March 2012.
- [9] K.Aboul-Seoud, Alaa El-Din Sayed Hafez, Mohamed Abd El-latif, A. Abou-Raya "Wind Speed Behavioral Modeling for Economical Energy Generation using Windmills" International Journal of Scientific & Engineering Research (*IJSER*) Volume 3, Issue 7, July-2012.
- [10] Alaa El-Din Sayed Hafez, Mohamed Abd-El-Latif " Efficient Wideband High Gain Low Noise Amplifier in Modern Radars" International Journal of Scientific &Engineering Research (*IJSER*) Volume 3, Issue 7, July -2012
- [11] Alaa El-Din Hafez, Mohamed Abd-El-Latif "Optimum Barrier Height for SiC Schottky Barrier Diode (SBD)"International Scholarly Research Network (ISRN), vol. 2013Article ID 528094, 5 pages.
- [12] A. K. Aboul-Seoud, Alaa El-Din Sayed Hafez, Ahmed Hamed, and Mohamed Abd-El-Latif "A Conformal Conical Phased Array Antenna for

Modern Radars” IEEE Aerospace conference Big Sky Montana, USA
March 2014.

- [13] El-Sayed Abdoul-Moaty, Tarek Reda Abdoul-Shahid, Alaa El-Din Sayed Hafez, and Mohamed Abd-El-Latif "A Particle Filter for Multi-static Radar Tracking" IEEE Aerospace conference Big Sky Montana, USA March 2014.
- [14] Mohamed Abd El-Latif Moawad, Ahmed Fathy, Ahmed Hafez ‘Smart Home Automated Control System using Android Application and Microcontroller “International Journal of Scientific & Engineering Research, Volume 5, Issue 5, May-2014.
- [15] Mohamed Abd El-Latif, Ahmed S.I. Amar, and Naser Ojaroudi Parchin “Metamaterial- Inspired Monopole Antenna with Improved Bandwidth for UWB Wireless Networks” International Conference On Microwave, Antenna and Communication *MAC2023*,India March 2023.
- [16] Naser Ojaroudi Parchin, Ahmed S.I. Amar, and Mohamed Abd El-Latif “Dual-Band MIMO Antenna with Planar Loop Resonators for Future Handheld Devices” International Conference On Microwave, Antenna and Communication *MAC2023*, India March 2023.
- [17] Mohamed Boumalkha,Raed A Abd-Alhameed,Naser Ojaroudi Parchin,Ahmed Khairy,Ahmed Gamal Abdellatif Ibrahim,Mohamed Abd El-Latif,Ahmed Sayed Ismail Amar,Ahmed Ibrahim Salem 'Power Amplifier Design Using Filtering Matching Network for Sub-6-GHz 5G/6G Applications' International Telecommunication Conference (ITC2025).

Academic Employment History

| From | to | University | Degree/Time |
|-------------|-------------|--|--|
| 1996 | 2004 | Air Defense Collage (ADC) | Teaching Assistance (Full Time) |
| 2005 | 2015 | Air Defense Collage (ADC) | Lecture Assistance (Full Time) |
| 2015 | 2016 | Researcher in Air Defense Research Center | Radar Designer Team Leader (Full Time) |
| 2009 | 2015 | Lecture in Alexandria Higher Institute of Engineering and Technology (AIET) | Lecturer Assistance (Part-Time) |
| 2016 | 2025 | Lecture in Air Defense Collage (ADC)-Pharos University in Alexandria (PUA) | Lecture Assistance (Part Time) |

Teached Engineering Courses Experience

| | |
|----|--|
| 1 | <i>Electronic Devices and Circuits</i> |
| 2 | <i>Introductions to Logic Circuits and Programming</i> |
| 3 | <i>Solid State Electronics</i> |
| 4 | <i>Electronics-All Courses</i> |
| 5 | <i>Quantum Mechanics</i> |
| 6 | <i>Semiconductor Device</i> |
| 7 | <i>Analog Integrated Circuits</i> |
| 8 | <i>Circuit Analysis</i> |
| 9 | <i>Digital Signal Processing</i> |
| 10 | <i>Operating System</i> |
| 11 | <i>Mathematics- All courses</i> |
| 12 | <i>Communication Systems</i> |
| 13 | <i>Integrated Circuit Devices</i> |
| 14 | <i>Automation and Robotics</i> |
| 15 | <i>Introduction to Robotics</i> |
| 16 | <i>Data Communication Networks</i> |
| 17 | <i>Digital Integrated Circuits</i> |
| 18 | <i>Mobile Communication</i> |
| 19 | <i>Digital Communication Courses Radar</i> |
| 20 | <i>Theory & Radar Design</i> |
| 21 | <i>Analog and digital communication</i> |
| 22 | <i>Satellite Communication</i> |
| 23 | <i>Electronic Devices and Circuits</i> |

Special Training Courses

- Use of Technology in Teaching - International Board of Certified Trainers European Division (**IBCT**) - Faculty and leadership Development center – Alexandria University, October 2014.
- Quality Standard in Education - International Board of Certified Trainers European Division (**IBCT**) - Faculty and leadership Development center – Alexandria University, October 2014.
- Crisis & Disaster Management - International Board of Certified Trainers European Division (**IBCT**) - Faculty and leadership Development center – Alexandria University, Nov 2014.

- Research Team Management - International Board of Certified Trainers European Division (**IBCT**) - Faculty and leadership Development center – Alexandria University, Nov 2014.
- Decision-making and problem-solving - International Board of Certified Trainers European Division (**IBCT**) - Faculty and leadership Development center – Alexandria University, Nov 2014.
- Communication skills in Education - International Board of Certified Trainers European Division (**IBCT**) - Faculty and leadership Development center – Alexandria University, Nov 2014.
- OSHA training course provided by Orascom Company August 2023.
- **QMS ISO (9001-14001-45001)** Lead Auditor.
- Lead Auditor in many projects till 2025.

Administrative Positions

- 1- All leadership and administrative positions corresponding to the rank in (**EAF**).
- 2- Manger of Egyptian communication satellite project (**Tiba-1**) launched in 2019 As an Egyptian Armament Authority (**EAA**) chief Assistance for space technology.
- 3- **General Supervisor** of joint projects with the Egyptian Space Agency - the Egyptian Satellite Company (Nile-sat) - the National Company for Telecommunications Services
- 4- **Executive Vice President** of Elite Engineering Consultant & Naval Architecture (**ECNA**)
- 5- **Quality Consultant** in quality institution for Engineering & Management Consultancy (**QI**)

Research Positions:

- **Reviewer** on the international Competition on Smart Innovation Technologies “IC –SIT 2023” Sponsor (**IEEE Egypt AP-S/MTT-S Chapter**) during the period 16- 27 July 2023 Alexandria, Egypt.
- **Reviewer** on the international Science and Engineering Innovation Competition (**ISEIC 2023**) during the period 7-8 May 2023 , Air Defense College (**ADC**) Alexandria, Egypt.

External Supervision Activates:

Supervision of both Satellite Projects in many countries and Academic field:

- **Russia July 2017 (Satellite project)**
- **Russia May 2018 (Satellite project)**
- **China November 2018 (Follower for Egyptian PhD students)**
- **France June 2019 (Satellite project)**
- **France November 2020 (Satellite Project)**
- **France November 2021 (Satellite Project)**