

CURRICULUM VITAE

1. Family name: Farag
2. First name: Prof. Dr. Ismail
3. Name of Organization: Arab Academy for Science, Technology & Maritime Transport (AASTMT)
4. Current Position: president of the Arab Academy for Science, Technology and Maritime Transport (AASTMT).
5. Academic Status: Professor of electrical and computer engineering
6. Date of birth: 15/ 06 / 1955
7. Nationality: Egyptian
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Previous Position: The Military Technical College (MTC) Commandant, Dean

12. Education:

Institution [Date from – Date to]	Degree(s) or Diploma(s) obtained:
George Washington University 1986 -1989	Ph.D. in Electrical Engineering
Cairo university 1979-1982	Msc in Electrical Engineering
The Military Technical College (MTC) 1973-1978	Bachelor degree of Electrical Engineering, Excellent with Honour

13. Professional experience:

Date from – Date to	Location	Company	Position	Description
2011- till now	Alexandria	Arab Academy for Science ,Technology & Maritime Transport (AASTMT)	President	
2009-2011	Cairo	The Military Technical College (MTC)	Director , Dean	
2005-2009	Cairo	The Military Technical College (MTC)	Vice Director & Vice Dean	Electrical and Computer Department
2000-2005	Cairo	The Military Technical College (MTC)	Chairman	
1979-2000	Cairo	The Military Technical College (MTC)	Different Positions	

14. Professional Qualifications:

1- Member of the Board Council of Arab Ministers of Transportation, League of Arab States, October 2011- Now.

2- Member of the Board Council of Arab Ministers of Economics, League of Arab States, February 2012 - Now.

3- Member of the Board Council of the World Maritime University (WMU), Malmo, Related To International Maritime Organization (IMO) – Sweden, 2014 – Now.

4- The Head of the League of Arab States official Delegation, IMO Council, (United Nation), London, UK, November 2011 – Now.

5- Member of the Board of the holding company for Maritime & Road Transport, Egypt, May 2014.

6- The Head of the Technical committee for Developing Maritime Education, IMO, (United Nation), London, UK, October 2013 - Now.

7- The Team Leader of the committee Responsible for Implementing the Proposal of Suez Canal Development Regional project, April 2014.

8- The President of the Board Integrated Solution Company, Egypt, 2012- Now.

9- The President of the Board, Port Academy for Maritime and Technical Studies at Al Dammam , AAST in cooperation with Saudi Ports Authority , 2012 – Now .

10- The President of the Board, The Regional Center for Studies and Training in the Port of Port Sudan, Cooperation between (AASTMT) and the Republic of the Sudan , 2014 – Now .

11- The Head of Joint council of the Arab Academy for Science, Technology and Maritime Transport (AASTMT) and Alexandria University , AAST campus , Sunday 30- 3- 2014 .

12- The Chief Executive of the Research and Consultation Center of the Maritime Transport Sector, 2011- Now.

13- The Chief Executive of the Port Training Institute, 2011- Now.

14- Member of the Higher Technical Committee for the Establishment the Arab Bank of information for the transport sector , the League of Arab States , 2012- Now

15- The Team Leader of the Committee Responsible for Implementing Decisions of the Arab Economic Summit related to the Arab Maritime Link Project States, 2011- Now

16- The President of the Industrial Advisory Council of International Transport and Logistics, 2012- Now

17- The President of the International Maritime Transport Forum, 2012- Now.

18- Participated in the Arab Delegation headed by Secretary General of League of Arab States, Twenty Six Arab Summit, Sharm El Sheikh- Egypt, 27-28 March, 2015.

19- Participated in the Arab Delegation headed by Secretary General of League of Arab States, Twenty Fifth Arab Summit, State of Kuwait, 25-26 March, 2014.

20- Participated in the Arab Delegation headed by Secretary General of League of Arab States , The third Arab-African Summit , State of Kuwait, 19 – 20 November 2013 , in collaboration with the African Union and the League of Arab states .

21- The Head of the Arab Academy for Science, Technology & Maritime Transport official Delegation (International Logistics Conference –SIL- Barcelona June 2012, June 2013).

22- Delegate in the Higher Co-operation Committee headed by Secretary General of League of Arab States, Jeddah, December, 2012.

23- Participated in the Arab Delegation headed by Secretary General of League of Arab States, Third Economic Summit, Riyadh, Saudi Arabia, 21-22 January, 2013.

24- Participated in the Arab Delegation headed by Secretary General of League of Arab States, Twenty Fourth Arab Summit, Doha, Qatar, 25-26 March, 2013.

25- Participated on the Official launch of ARELEN “Arab European Leadership Network in Higher Education”, 24 - 26 February 2014, Amman – Jordan, organized by Association of Arab Universities in cooperation with the Leadership Foundation for Higher Education, Cardiff Metropolitan University, TEMPUS project and the British council.

26- Consultant for the League of Arab States: for several reports and research projects, 2011 – till now.

27- The Head of the Arab Academy for Science, Technology & Maritime Transport official delegate in the thirteenth session of the the Transport Committee, 24-26 April 2012 , Beirut , ESCWA (Economic & Social Commission for Western Asia) , United Nation .

28- The Head of the Arab Academy for Science, Technology & Maritime Transport Official delegate in the third International Congress on Mediterranean Trade & Port Cities – Mediterranean: crossroads of the world seaways – 7-9 June 2012, Mersin. Turkey.

29- Consultant to the Ministry of Defense for Education & Research Affairs, 2009-2011.

30- Participated in the Egyptian Delegation headed by the ministry of Defense for Co- operation between MTC & American & Canadian Universities, 2008, 2009, 2010.

Chair of the Following Conferences :

1- Fourth International Maritime Transport & Logistics Conference – (Marlog 4), A Sustainable Development Perspective For Mega Projects, 28-29 March 2015, AASTMT, Alexandria.

2- Third International Maritime Transport & Logistics Conference – (Marlog 3), Logistics Industry in the Arab Region "Threats and Opportunities", 9-11 March 2014, AASTMT, Alexandria.

3- The First International Conference For Marine Engineering- Marine Projects Industry , 3-4 September 2014, Al Jubail - Kingdom of Saudi Arabia , AAST in cooperation with Saudi Ministry of Transport and Saudi Ports Authority.

4- Fourth Arab Conference for Higher Education in Arab Universities , "Prospects and Challenges", 18 – 20 February 2014, Cairo, Egypt , Cooperation with Cairo University, Helwan University, the Egyptian Scientific Institute and the Arab Organization for Administrative Development .

5- The 40th Annual Conference for The Association of Egyptian-American Scholars, “Scientific Challenges & Emerging Technology in Transfer in Modern Egypt & the Arab World”, 28-30 December 2013, AAST, Alexandria, Egypt.

6- Workshop of "The Role Of Logistic Activities In Supporting The Competitiveness of The Transport Sector", 17 – 18th September 2013, Al Jubail - Kingdom of Saudi Arabia , AAST in cooperation with Saudi Ministry of Transport and Saudi Ports Authority.

7- International Conference for Global Climate Change, Biodiversity & Sustainability: Challenges & Opportunities, 15-18 April 2013, AASTMT, Alexandria.

8- Second International Maritime Transport & Logistics Conference – Marlog 2, Sustainable Development of Suez Canal Region, 17-19 March 2013, AASTMT, Alexandria.

9- Eleventh International Conference for Middle East Economic Association (MEEA), 25-27 June 2012, AASTMT, Alexandria.

10- Third International Forum for Maritime Transport, 20-22 March 2012, AASTMT, Alexandria.

11- First International Maritime Transport & Logistics Conference – Marlog 1, 17-19 December 2011, AASTMT, Alexandria.

12- Workshop of "the general philosophy of self-financing and the successful experiences of some Arab organizations in the development of its own resources as the houses of Arab expertise", League of Arab States, Cairo, 23-4- 2014.

13- Workshop of "the preparation of indicators to measure performance in the Arab specialized organizations", League of Arab States, Cairo, 24- 4- 2014.

14- Fourteenth International Conference on Aerospace Sciences & Aviation Technology, ASAT, 24-26 May 2011, MTC, Cairo.

15- Fifth International Scientific Conference of Military Technical College, 25-27 May 2010, MTC, Cairo.

16- Fourteenth International Conference on Applied Mechanics & Mechanical Engineering, AMME-14 , 25-27 May 2010 , MTC , Cairo .

15- Seventh International Conference on Electrical Engineering , ICEENG- 7, 25-27 May 2010, MTC , Cairo .

17- Fifth International Conference of Chemical & Environmental Engineering, ICEE -5, 25-27 May 2010, MTC , Cairo.

18- Eighth International Conference on Civil & Architecture Engineering , ICCAE – 8 , 25-27 May 2010 , MTC , Cairo .

19- Fifth International Conference of Mathematics & Engineering Physics , ICMEP- 5 , 25-27 May 2010 , MTC, Cairo .

20- Thirteenth International Conference on Aerospace Sciences & Aviation Technology, ASAT, 26-28 May 2009, MTC, Cairo.

Conferences, congresses and agreements: Organizing and participating and chairing sessions in great number of national and International events in different areas: USA, UK, Spain, Canada , Italy, Turkey, Lebanon, UAE, KSA, and Jordan in different fields of computer networks, secure computer systems, algorithms, computers and structural systems of computers .

Designing and supervising a series of case studies on leading Egyptian companies on different sectors as senior expert and consultant to the EU.

15. Academic Qualifications:

Lecturing (In English language) in several areas of Computer Engineering such as: Logic circuits , Computer architecture , Microprocessor , Computer communication networks, Structured programming , Programming in FORTRAN , The C programming language, Prolog-programming language , Artificial intelligence , Theory of algorithms , Data structures , File organization , Computer Security , Advanced data structure, Microprocessor based systems , Microprocessor engineering , Computer networks ,
Both for undergraduate and postgraduate, for Egyptian and foreign students.

Visiting professor in Egyptian, Arab and foreign universities, such as: Ain Shams University, Cairo University, and American University in Cairo.

Publishing many news papers and press reports in different fields **of computer networks, secure computer systems, algorithms, computers and structural systems of computers**

Supervising and refereeing number of masters, Ph.D, researches, and papers in different universities and journals. In MTC, Ain Shams University, Cairo University, as well as judging thesis in such institutes and foreign Canadian universities in Engineering and American University in Cairo, and Arab Academy for Science and Technology.

Thesis and dissertation supervision:

Ph. D. Dissertations:

- 1- Security Architecture for Internet Protocols.
- 2- Performance Evaluation of Video-on Demand (VOD)
- 3- Wireless Network Security.
- 4- Secured Hiding of Messages in Video Over the Networks.
- 5- Security of Wireless Computer Communication Networks.
- 6- Information Fusion.
- 7- Security of Voice IP.
- 8- An Information Extraction Model Within C41 Architecture.

Masters of Science Thesis:

- 1- Microwave Tuned Amplifiers and Oscillators.
- 2- Spoken Language PC – Interface Study and Implementation.
- 3- Prioritized Channel Assignment in Cellular Radio Networks.
- 4- Intelligent Time Tabling System.
- 5- A Neural Network Approach for Fractal Compression of Aerial Images.
- 6- Effect of Introducing ATM Techniques on the Performance of Complex Computer Communication.
- 7- Authentication and Access Control in Linux Operating System.
- 8- Intelligent Real Time Systems in Virtual Reality Applications.
- 9- Secure Intranet Using Virtual Private Networks.
- 10- Virtual Prototyping.
- 11- Data Hiding Techniques for Information Security.
- 12- Multi Agent Based Intrusion Detection System.
- 13- Performance Evaluation of Security Mechanisms for Wireless Communication Networks.
- 14- Microcontroller Based Video Tracking for Multi-Robot Navigation Systems.
- 15- Intelligent Intrusion Detection Systems.
- 16- Intrusion Detection and Prevention System.
- 17- Code Division Multiple Access (CDMA) Security.
- 18- Cyber War Implementation and Protection.
- 19- Application Migration from Legacy Operating Systems to Modern Ones.
- 20- Military Applications of Virtual Reality.

16. Membership of professional bodies:

- **The World Maritime University, Malmo, Sweden (WMU)**
- **The International Association of Maritime University (IAMU)**
- **The World Maritime Organization (IMO)**
- **The International Maritime Lecturer Association (IMLA)**
- **International Association of Universities (IAU)**
- **Association of Arab Universities (AARU)**
- **International Federation of Freight Forwarders Associations (FIATA)**
- **The International Air Transport Association (IATA)**
- **International Road Transport Union (IRU)**
- **Royal Institute of British Architects (REBA)**
- **US Maritime Safety Association**

17. Publications:

1- Protecting GIS Data using Cryptography and Digital watermarking, International Journal of Computer Science and Network Security, IJCSNS, 2010.

2- A High Grade Secure CDMA using the TEA Encryption Algorithm , EDERC 2010, Nice, France , 2010 .

3- Secure Internet Using Virtual Private Networks, 11th International Conference On Aerospace Sciences & Aviation Technology, MTC, Egypt, 2005.

4- Design & Implementation of a Real-Time Combat Vehicle Driving Simulator, 12th International Conference Artificial Intelligence Application, Cairo International Conference Center, Egypt , 2004 .

5- Design, Implementation, and Assessment of Intrusion Detection System of Critical Web Based Applications using Data Mining and Genetic Programming , 4th International Conference On Electrical Engineering , MTC, Egypt , 2004 .

6- Power System Damping Enhancement using Adaptive Neural Network Technique, 4th International Conference On Electrical Engineering , MTC, Egypt, 2003.

7- Assessment of Two-Dimensional Models for Cellular Mobile Systems , 10th International Conference Artificial Intelligence Applications , Cairo International Conference Center, Egypt , 2002 .

8- A Peer-to-Peer Schema for VOD Service, 3rd International Conference on Electrical Engineering, MTC, Egypt, 2002.

9- Secured Web Based War Game Application Using Combined Smart Certificate and Secure Cookies Techniques, 1st IEEE International Symposium on Signal Processing and Information Technology, 2001.

10- Computer routing in computer networks with redundant links, 14th international radio conference, Egypt, 1997.

11- Hybrid expert system for solving the transportation problem, 7th AMME conference, Egypt , 1996 .

12- A priority scheme for a mixed media cellular system, 6th international conference on computer theory and applications, 1996.

13- Analysis and evaluation of pre-emptive priority model, 5th international conference on artificial intelligence applications, Egypt, 1996.

14- Neural network implementation of binary tree, Journal of AAST, Egypt, 1995.

15- A spoken language interface for PC control, Journal of AAST, Egypt, 1995.

16- A prioritized flexible channel allocation scheme in cellular radio networks, 12th national radio science conference, Egypt, 1994.

17- Neural network for carry centeation in a digital adder, 12th national radio science conference, Egypt, 1994.