C.VCurriculum Vita Dr. Marwa Taher Yousif Ali

1. Personal Information

Name: Marwa Taher yousif Ali

Nationality: Egyptian

Religion: Muslim

Marital status: Divorced

Address: Cairo, Egypt

Date of Birth: 31/10/1979

Place of Birth: Cairo, Egypt

Current Job: Assistant Professor at Dept. Of Automatic Control,

Tabbin Institute for Metallurgical Studies.

Director of Technology Innovation Support Centre.

2. Contact Information

Mobile: 01201151183 - 01006639529 Code: 02

E-mail: marwa_t_1979@yahoo.com

3. Qualifications:

 PhD degree of "Computers Engineering" – (Robotics) – 2013 – Faculty of Engineering - Helwan University - Egypt

Thesis title "Motion Planning of Mobile Robots in Cluttered Environments"

• MSc degree of "Electronics Engineering" - Programming of FPGA – 2006 - Faculty of Engineering - Helwan University - Egypt

Thesis title "Design and Implementation of High Performance FPGA Based Floating-Point DSP Functions"

 B.Sc degree of "Computers, Electronics & Communications" -Specific

Field: Computers Engineering – 2001- Faculty of Engineering – Helwan University - Egypt

Project of graduation: Smart Home (as an application of using

Computer interface to protect a home from fire and stealing, and save the

electricity)

Degree of project: Excellent

General Field: Computers and Electronics Engineering

Specific Field: Computers Engineering

4. Career progression

- Computers and electronics Engineer at Measurements and calibration lab (From 2002 to 2008).
- Teacher Assistant at Department of Automatic Control (From 2009 to 2013).
- Assistant Professor at Department of Automatic Control (From 2013 to 2018).
- Director of TISC (Technology Innovation Support Centre) from 2013 to 2018.

At Tabbin Institute for Metallurgical Studies – Cairo – Egypt.

5. Teaching Experience

Teaching the following subjects for graduated studies at Tabbin Institute for Metallurgical Studies – Cairo – Egypt:

- Microcontroller
- Energy Management in Electrical Systems (includes Improvement of power factor, High efficiency lighting & High efficiency Motors)
- SCADA (Supervisory Control and Data Acquisition)
- DCS(Distributed Control System)
- Automation of Rolling Mill Process

6. Training Experience

Training the following courses:

- IP Rights
- The IP ways to protect your invention
- How to patent drafting
- How to write a good proposal
- Computer skills for Rehabilitation of young graduates

7. <u>Practical or Scientific experience</u>

- Electronic Cards Design & Maintenance.
- Computers Maintenance.
- Electronics, Electrical and Industrial Measurements.
- Calibration of electrical and industrial measuring equipment's.

8. Administrative Experience

- Manager of TISC (Technology Innovation Support Centre) office.
- IPR awareness for researchers and inventors.
- Technical support for researches and inventors.
- Represent the TISC in many national conferences and Exhibitions (TISC won a prize from Academy of Scientific Research and Technology (ASRT) In recognition of the efforts.
- Participation in scientific councils and monitoring committees for postgraduate studies at the Institute.
- Participating in many conferences as:
 - 1. Co-operation Conference for between the industry and the scientific research (2014) to (2016)
 - 2. Mediterranean matchmaking Euro platform (2014)
 - 3. Exhibition of international Cairo for innovation (2014) to (2017)

9. Experiences in the following fields:

Computer Architecture Microprocessor

Digital Signal Processing C++

Computer Interface Assembly

Digital Logic Design Matlab

Microcontroller Embedded System

VHDL Robotics

Microsoft Office FPGA

Solar Energy Systems English

10. Scientific Activities:

Attendance of scientific conferences

- "Radio Science Conference" Egypt
- "Sixth Scientific Student Conference" presents the latest inventions at the Helwan University – Cairo – Egypt - Guest House
 - April 2014
- "The First Forum Transfer of Innovation to the Market" at the Greek campus at the American University Cairo Egypt May 2014
- The conference of cooperation between industry and scientific research 2-5 March 2014.

Attendance of Scientific Seminars

- "Marketing and financing scientific research and projects and linking them to industry" Faculty of Science Helwan University -Cairo - Egypt - April 2014
- "How to evaluate ideas" at the Centre for Technological Innovation and Entrepreneurship (TIEC) in Smart Village - Cairo -Egypt - January 2015
- "Patents and Intellectual Property Protection Law" at the Agricultural Research Centre, Cairo, Egypt, January 2015

- "Clarivate Analytics formerly Thomson Reuters Analytics" workshop at the Scientific Research Academy, Cairo, Egypt, November 2017.

Passing many training courses

- "Introduction to Intellectual Property" in the Academy of Scientific Research and Technology Cairo Egypt
- "Solar Energy Systems" at the National Research Center Cairo -Egypt - August 2015
- "Embedded Systems" AMIT Cairo Egypt 2014
- "VLSI" at the National Telecommunication Institute Cairo Egypt -2003
- "General Course on Intellectual Property" in Distance Learning at the World Intellectual Property Organization (WIPO) – Online -2016
- Courses in English language Berlitz Cairo Egypt

11. List of Publications:

- [1] "High –Speed, Area efficient FPGA Based Floating Point Arithmetic Modules" JES Fac. of Eng., Univ. of Assiut, Vol. 34, No. 4, July 2006, and Proc. of the ICSES Conference, Sept. 06, Poland.
- [2] "Tracking of a Moving Target by Improved Potential Field Controller in Cluttered Environments", IJCSI International Journal of Computer Science Issues, Vol. 9, Issue 2, No 3, March 2012, pp(472-480).
- [3] "Improved Potential Field Controller for Obstacle Avoidance in Mobile Robots", 29th NATIONAL RADIO SCIENCE CONFERENCE (NRSC 2012) April 10 12, 2012.
- [4] "Tracking of Multi Moving Targets Using the Simplified Artificial Potential Field Controller", JOURNAL OF COMPUTER SCIENCE AND ENGINEERING, VOLUME 13, ISSUE 2, JUNE 2012, pp (1-9).

- [5] "Obstacle Avoidance with Virtual Sensor in Mobile Robot's Motion using the Advanced Potential Field Controller", International Journal of
- Computer Applications (0975 8887) Volume 53– No.4, September 2012, pp (9-14).
- [6] "A COMPARISON STUDY BETWEEN USING THE PSO ALGORITHM AND THE GA IN MOBILE ROBOT'S MOTION", International Journal of Information Technology, Control and Automation (IJITCA) Vol.3, No.1, January 2013, pp (1-10).
- [7] "Virtual Distance Sensor Information for Effective Obstacle Avoidance of Mobile Robots", JOURNAL OF COMPUTER SCIENCE AND ENGINEERING, VOLUME 17, ISSUE 1, JANUARY 2013, pp (11-15).
- **[8]** "Adaptive Controller Based PSO with Virtual sensor for Obstacle Avoidance in Dynamic Environments" accepted at NRSC 2014

12. References:

Name	Contact Information
Prof. Dr. Tarek	Former Director of Tabbin Institute for Metallurgical
Mahmoud Sami	Studies - Director of Technology Innovation and Commercialization Office
	01279418760 sami_san@yahoo.com
Prof. Dr. Samir	Director of Automatic Control Department in
Fouaad Elbardissi	Tabbin Institute for Metallurgical Studies
	01001400184 sfbardissi@hotmail.com
Prof. Dr. Mahmoud	At Automatic Control Department - Tabbin
Sabry	Institute for Metallurgical Studies
	01224098832 sabry_666@hotmail.com
Prof.Dr.Elsayed	At Department of Computers – Faculty of
Mostafa Saad	Engineering – Helwan University
	01001243111 elsayedmos@hotmail.com

Prof. Dr. Mohamed At Department of Computers, Electronics and Eladawy Communication – Faculty of Engineering – Helwan University www.eladawy.com mohamed@eladawy.com Prof. Dr. Ahmad Dean of the Faculty of Engineering–Helwan University Elgarhy