Curriculum vitae

1. **Name:Fayrouz AbdEl Rahman Allam**



1. **Date of birth: 9/2/1978**
2. **Nationality:**Egyptian
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dr-fayrouz@ tims.gov.eg

1. **Education& Training:**

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| --- | --- |
| Institution  [ Date from - Date to ] | Degree(s) or Diploma(s) obtained: |
| Faculty of Engineering, Helwan Univ.  (2007-2014) | PhD in Computer Engineering (Automatic control)  "closed loop control system for blood glucose regulation for type-1 diabetic patients" |
| Faculty of Engineering, Helwan Univ.  (2001-2006) | MSc. In digital signal processing  "comparative study on super-resolution of images" |
| Faculty of Engineering, Helwan Univ.  (1995-2000) | BSc. of Communication And Electronics Engineering |
| ITI, On-line course  June,2020 | e-learning fundamentals |
| On-line webinar  Innovety, June 2020 | How to apply 10 innovative principles to revive your products, services &business models |
| AIDMO-Workshop  11June, 2020 | ITC Leadership in COVID-19 |
| On-line- Egyptian Patent Office-  June,2020 | The workflow of the Egyptian patent office |
| ASRT  May, 2020 | Applied project management- level1 |
| ASRT  March, 2020 | Strategy Formulation and planning |
| ASRT  May.2020 | Innovation support law |
| Elsevier research intelligence  May, 2020 | Selecting a journal for publishing using Scival"" |
| On-line course, almentor,  2020 | Train the trainers, the complete guide |
| On-line course, almentor,  2020 | Business data analysis using excel |
| On-line course, almentor,  2020 | Change management in work and life |
| On-line course, almentor,  2019 | Stress Management |
| On-line course, almentor,  2019 | Self awareness, your GPS in life |
| ARAC, August 2019 | Developing the skills of faculty members |
| March 2019 | Pressure gauge calibration |
| March 2019 | Calibration of balances |
| TIMS. 2018 | ISO17025 General Specifications |
| TIMS 2018 | ISO17025 Internal Auditing |
| ASRT, 9-10 December, 2018 | Applying for EU H2020 research funding grants |
| EU ENPI CBC MED Project FOSTER in MED  (15-28 Nov. 2015) | PV certified course for installer |
| Berlitz  26 Aug.- 12 October. 2015 | English (level7) Berlitz conversation course |
| *National center for research*  *16-20 Augst. 2015.* | *Solar Energy Importance and its Practical Application* course |
| 13-17 Dec. 2014. | Commercialization and Technology Valuation Course |
| Helwan Univ.  *8Dec. 2014* | *How to use internal database for scientific research* Course |
| *Innovety company, Nov.2014* | *Business strategy* |
| *Innovety Company*  *Nov. 2014* | *Technology commercialization,* |
| *Innovety Company*  *Nov. 2014* | *Patent information and patent search,* |
| *Certificate from WIPO patent office*, March, 2017. | *"Intellectual Property Rights",* Online course at WIPO patent office |
| *Certificate from WIPO patent office* , May, 2018*.* | Patent Drafting |
| Egyptian Patent Office, 8- 9 Sept.2015 | Patent drafting course |
| *TIMS, 2014* | *ISO9001 Internal Auditing* |
| Egyptian association for industrialdevelopment  2-7 March 2002 | *Programming of PLC-LOGO* |
| ITC centre (a computer centre authorized from IBM)  (2000-2001) | E-Business diploma (CIW Certification) |

1. **Language skills:** Indicate competence on a scale of 1 to 5 (1 - excellent; 5 - basic)

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| --- | --- | --- | --- |
| Language | Reading | Speaking | Writing |
| English | 2 | 3 | 2 |
| Arabic | Native Language | | |

1. **Other Skills:**

-Theory of automatic control teaching.

-PLC Programming (Principles And SIEMENSE Programming).

- Programming using MATLAB.

– Solar Energy design

- Medical Engineering.

- Simulation and Testing of control systems.

- Image processing implementations

- Algorithms design and implementations

- Using Fuzzy logic control.

- using Artificial intelligence

– Patent writing.

-Proposal writing .

- Technology evaluation

- Microsoft office

-Programming using C language

-Electronic cards maintenance

-electrical measuring instruments calibration

1. **Present Position:**

-Lecturer in automatic control department.

- Quality manager in Measurement and Calibration lab, TIMS

1. **ProfessionalExperience**

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| --- | --- | --- | --- | --- |
| Date from - Date to | Country | Company Served | Position/Assignment | Description |
| Feb., 2014 till now | Egypt | Tabbin Institute for Metallurgical Studies (TIMS), | Lecturer in Automatic Control Department | -Teaching in postgraduate diploma  - Teaching automatic control and PLC courses for engineers from industry. |
| April, 2014 till 2018 | Egypt | TIMS | Deputy director of TISC (technology and innovation support center) in TIMS. | - Increasing the awareness of protecting new ideas and helping in patent drafting. |
| May., 2005 to Feb. 2014 | Egypt | TIMS | Assistant lecturer in Automatic Control Department | -Teaching PLC courses for engineers from industry. |
| Feb., 2002 to May, 2006 | Egypt | TIMS | Electronic specialist engineer | -Electronic cards maintenance, programming with visual basic, working with measuring and calibration devices. |
| 2001 to 2002 | Egypt | CITC (IBM computer training center) | Programming Instructor | - E-Business track instructor |

**12. Courses that have been taught**

-Theory of automatic control.

- Measuring devices.

-Information technology.

-testing the designed control system using MATLB

-Programming of Programmable logic control (PLC) (beginner and advanced)..

- Programming of Siemense S7 PLC (beginner and advanced).

- Troubleshooting of PLC.

-Generation of electricity from solar energy

- Programming using PHP.

-Programming using MATLAB.

**13. Thesis supervision:**

Supervised a thesis titled:” smart grid application in Egyptian electrical transmission network”, 2018.

**14. Area of research:**

* Automatic control.
* Electrical engineering.
* Automatic control application in Biomedical engineering.

**15. List of Publications:**

1. "Protecting Overhead Transmission Lines (OHL) from Hot Spots Using Dynamic Line Rating (DLR) Calculations", accepted for publication in international conference of electrical engineering (ICEENG-12), 2020.
2. “Using IEEE Standard 738 to Increase Rating of Overhead Transmission Line (OHL)”, Saudia Arabia Smart Grid 2019 Conference (SASG2019).
3. "An insulin scaling algorithm in a control system based on risk minimization of hypo- and hyperglycemia", ICEENG2018.
4. “Blood Glucose Regulation Using a Neural Network Predictor with a Fuzzy Logic Controller”, Journal of Intelligent & Fuzzy Systems, vol. 25, pp. 403–413, 2013.
5. “Evaluation of Using a Recurrent Neural Network (RNN) and a Fuzzy Logic Controller (FLC) In Closed Loop System to Regulate Blood Glucose for Type-1 Diabetic Patients”, I.J. Intelligent Systems and Applications, vol. 10, pp. 58-71, 2012.
6. “Prediction of Subcutaneous Glucose Concentration for Type-1 Diabetic Patients Using a Feed Forward Neural Network”, International Conference on Computer Engineering & Systems (ICCES’2011), pp. 129-133, 2011.
7. “A Recurrent Neural Network Approach for Predicting Glucose Concentration in Type-1 Diabetic Patients”, In proceeding of EANN/AIAI 2011, Part I (IFIP AICT 2011), pp. 254–259, 2011
8. Comparative Study on Super-Resolution Of Images, ICEES’2006.

**16. Conferences attended:**

1. 12th International conference of electrical engineering," ICEENG-12", 7-9 July, 2020.
2. 9th Egyptian - German Renewables Day, October 2018.
3. The International Conference Of Electrical Engineering, 3-5 April, 2018.
4. The Fifth Forum for Occupational Safety and Health and Securing the Work Environment, 14 May, 2018.
5. 11th International conference of electrical engineering," ICEENG-11", 3-5 April, 2018.
6. Science and innovation summit, March 2017
7. Future of energy in Egypt, Delphi Survey, Jan. 2017.
8. International conference of smart grid, "Africa smart grid forum,2016".
9. The international conference of collaboration between industry and academia, 2015
10. The international conference of collaboration between industry and academia, 2014.
11. The International Conference on Computer Engineering & Systems (ICCES’2011), 2011.
12. The 2006 International Conference On Computer Engineering & Systems (ICEES’2006), Ain Shams

**17. Reviewed papers:**

1. “Congestion Management of Integrated Transmission and Distribution Network with RES and ESS under Stressed Condition.”, International Transactions on Electrical Energy Systems. 2021.

2. “On VMD of Wind Speed for Real-Time Thermal Rating Determination in Power Transmission System."  Energy & Environment journal., 2021