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Curriculum vita

Ahmed Abdulaleem Abdullah Mohammed

Personal information

Name : Ahmed Abdulallem Abdullah Mohammed
Gender : Male
Nationality : Egyptian
Religion : Muslim.
Birth Date : 1/10/1983
Birth Place : Abdullah tamman- elrakabia – domyat
Military status : completed
Address : Rakabia – kafr elbatekh - domiatta
Martial Status : married.
Job : EPSE branch manager

Educational Information:

- B.Sc. of computer and control Systems Department With a graduation grade of very Good (83.63%) with honor ranked third, based the Total degree of the five years.
- Master degree in 12/2012 mansoura university -faculty of engineering – Electrical power department with thesis title "Redundant Remote Monitoring of Distributed Generation Resources".
- Ph.D degree in 7/2017 mansoura university-faculty of engineering – Automatic control systems department with thesis title "A New WSN Routing Strategy for Enhancing Wind Farms Power Forecasting"
- Certified consultant for electrical designs of facilities.
- Associate professor Degree 10/2024.

Experience:

- From 1/3/2007 to 1/9/2007 work in control system company (PEPARAB company) (full time).
- From 1/9/2007 to 1/9/2010 work in Sinai university as a demonstrator (full time).
- From 1/9/2007 to 1/9/2010 work in control system company (PEPARAB Company) as (part time).
- From 1/7/2011 to 1/7/2017 Work in ABDULLAH ABUNAYYAN GROUP as R&D and training manager in Saudi Arabia.
- From 1/7/2017 until 10/2024 work in Delta University as Assistance Professor (full time).
- From 10/2024 until now work in Delta University as Associate Professor (part time).
- From 7/1/2024 until now Egypt branch manager and consultant for EPSE Company – Saudi Arabia - (Full time)



Research article

- BM El-den, Walid A Raslan, **Ahmed A Abdullah**, „Even symmetric chaotic and skewed maps as a technique in video encryption“, EURASIP Journal on Advances in Signal Processing, SpringerOpen, 2023, vol. 2023(1), pp.1-22.
- **Ahmed A Abdullah**, Tarek M Hassan, Bassant Mohy Eldin, „ Renewable Energy Resources Modeling Survey“, Delta University Scientific Journal“, vol. 6(1), pp. 225-235.
- **Ahmed A. Abdullah**, Hesham Ali, Tarek Hassan, Hanaa Salem Marie, „Open Issues for Intelligent Connectivity Wireless Sensor Networks (WSNs) and IoT: State of the Art“, Delta University Scientific Journal, vol. 5 (2), pp. 352-366.
- **Ahmed A Abdullah**, Tarek M Hassan, „Smart grid (SG) properties and challenges: an overview“, Discover Energy, 2022.
Rana Mohamed El-Balka, Ahmed I Saleh, **Ahmed A Abdullah**, Noha Sakr, “Enhancing the performance of smart electrical grids using data mining and fuzzy inference engine”, Multimedia Tools and Applications, Springer US, 2022, pp. 1-33
- **Ahmed A Abdullah**, Tarek M Hassan, “A Hybrid Neuro-Fuzzy & Bootstrap Prediction System for Wind Power Generation”, Technology and Economics of Smart Grids and Sustainable Energy, Springer Singapore, 2021, vol. 6, pp. 1-14.
- **Ahmed A Abdullah**, “A Proposed Forecasting System for Wind Power in Smart Grids”, AIUE Proceedings of the 2nd Energy and Human Habitat Conference, 2021,
- Ahmed E Saleh, Mohamed S Moustafa, Khaled M Abo-Al-Ez, **Ahmed A Abdullah**, “A hybrid neuro-fuzzy power prediction system for wind energy generation”, International Journal of Electrical Power & Energy Systems, Elsevier, 2016, vol 74, pp. 384-395,.
- Ahmed I Saleh, Khaled M Abo-Al-Ez, **Ahmed A Abdullah**, “A Multi-Aware Query Driven (MAQD) routing protocol for mobile wireless sensor networks based on neuro-fuzzy inference”, Journal of Network and Computer Applications, Academic Press, 2017, vol. 88, pp. 72-98.
- **A Abdullah**, A Saleh, M Moustafa, K Abo-al-Ez, “A proposed framework for a forecasting system of wind energy power generation”, International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), 2014, vol. 4.
- AE Hassan, MM El-Saadawi, SA Farghal, **A Abd El-Aleem**, “Proper Efficient Interface between DG Units and Electric Utility Grid”.

Courses & Training

- **Elsewedy Electro-meter**
 - **Electro-meter fabrication**
 - **Electro-meter maintenance**
 - **Electro-meter operation.**
- **ABB training for 800Xa system**
 - **Control builder.**
 - **Human system interface**
 - **Function designer.**
- **Schneider:**
 - **Unity pro 5.1**
 - **Vijeo Citect 7.2 HMI.**
 - **Monitor Pro HMI.**
 - **Working on PLC (quantum, premium, M340) for Schneider.**
- **El-sewedy electrometer:**
 - **Pre-payment power meter.**

- Maintain the meter.
- Programming the meter.
- **SOFREL (Saudi Arabia):**
 - LS42 logger.
 - S5xx for FIU and RTU.
 - GSM communication.
 - SOFTTOOLS, PCWIN software from sofrel.
- **MOTOROLA (Saudi Arabia):**
 - STS for programming the ACE.
 - MOSCAD toolbox.
 - IP gateway.
 - Radio communication
- **WONDERWARE**
 - Intouch HMI
 - Archestra HMI
- **Course no 1 To PLC (control systems , SCADA system , in touch as human machine interface)**
- **Course no 2 To PLC (advanced control systems ,advanced SCADA system ,advanced in touch as human machine interface).**
- **Redhat enterprise 5 (essential – administration – server) RHCA,RHCT certified.**
- **Microsoft trainer certified.**
- **I am expert in**
 1. **Programming (VB6 – VB.net – shell programming under Linux)**
 2. **Data Base (SQL – access)**
 3. **office packets**
 4. **Trade on internet.**
 5. **Working on Motorola PLC (ACE , MOSCAD).**
 6. **Working on Schneider PLC (Quantum, Premium, M340, Twido)**
 7. **Working on sofrel PLC and LS for flow meter detector.**
 8. **Working on wonderware for HMI (INTOUCH, ARCHESTRA)**
 9. **Working on CITECT software for HMI**
 10. **Programming touch screen maglis, semiens, delta, ...**
 11. **Using the following communication (GSM, GPRS, Ethernet, Fiber optics, Radio, FIPIO, RS485,..)**

Technical Skills

❖ **programming Languages and software:**

- C++.
- VB6 , VB.net
- SQL.
- PHP.
- HTML.

❖ **For Control Systems**

- **Programming PLC device under IEC61131-3I with language (QLD – FBD – SFC – IL – ST)**
- **Build Human Machine Interface (HMI) and SCADA system by using Wonderware INTOUCH, Archestra or Citect Software.**

- Make a communication between PLC (RTU'S) and SCADA System via The following Protocol.
 1. MODBUS protocol RS232.
 2. profibus protocol (FMS).
 3. profibus protocol (DP).
 4. NETDDE.
- Building Distributed Control Systems by using the following communication .
 1. Radio.
 2. GSM.
 3. Ethernet.

❖ Hardware

- Maintain PLC hardware and software.
- Maintain Computer hardware and software.
- Network design and implementation.
- Design PCB for any hardware project.

❖ Database Development Tools

- SQL server2000
- Microsoft Access

❖ Operating Systems

- Linux Platforms.
- Windows Platforms,

❖ Others

- Microsoft office
- Macromedia Flash
- AutoCAD to graphics.
- AutoCAD electrical.

Projects and experience:

1. SCADA system for the main water valves in Damietta port (2021).
 - Design and supply electrical actuators to control open and close the valves.
 - Design the electrical and communication panel to control and monitor local/remote.
 - Apply 3G communication (wireless communication) over mobile network.
 - Supply flow and pressure sensors and design the optimal location in the water network to monitor the pressure and flow in the water network.
 - Apply expert condition to the system to give recommendation for operation of the network.
 - Apply maximum human/devices safety when supply the actuators with electricity at actuators covered by water.
 - Design HMI on the computer and control centers to monitor the water network, control the valves and analysis.
2. Establishment and development of the electrical infrastructure of the French village in Damietta Port (2020).
 - Supply and installation medium voltage cables.
 - Supply and installation medium voltage incoming and outgoing cells.
 - Supply and installation 11kv/380v transformer.
 - Construction of a concrete base for transformers.
 - Making paths according to the Egyptian code for laying electrical cables.
 - Installing lighting poles and high mast on the main streets.
3. Development of cathodic protection system in Damietta Port (2021)
 - Supply and installation rectifier units 300A DC (380VAC/24VDC).

- Supply and installation titanium anodes at the berths of the port.
- Supply and installation cathode cable from rectifier unit to the iron curtains.
- Measure the protection level of the system.
- 4. **Setting technical specifications for development medium and low voltage electrical network in Damietta Container Handling Company (2022)**
 - The medium voltage cables.
 - The medium voltage incoming and outgoing cell.
 - Low voltage cables.
 - The low voltage panels.
 - Power factor panels.
 - Design the new paths of electrical network.
- 5. **Design, supply, and install on-grid solar cell electrical generation station above the port stores (2019, 2020, 2021, and 2022).**
 - Supply and installation solar cell JINKO with power 530 W.
 - Supply and installation on grid solar inverter ABB 50 KW.
 - Supply and installation Aluminum cell carriers.
 - Supply and installation cables and trays.
 - Supply and installation self-cleaning system.
- 6. **SCADA system for manage the electrical station and network in Damietta port.**
 - ABB DCS system 800XA
 - Control and monitor the motorize MCCB switches in low voltage.
 - Control and monitor the medium voltage incoming and outgoing cells.
 - Analysis the historical and real data.
 - Control and monitor the light control switches.
- 7. **Onshore power supply (OPS) project**
 - Supply the vessels on the berths with electrical power to shutdown diesel generator and minimize carbon emission.
 - Provide 380V/50 hz and 440V/60 hz.
 - Medium and low voltage cables.
 - Cable assembly rollers.
- 8. **Firefighting & fire alarm systems Design and implementation (hardware and software).**
 - Design panel form.
 - Design hardware PCB and Component selection.
 - Programming CPU (WILKE processors) to implement protocol.
 - Select the proper detector working with this panel.
 - Feature for this project:
 - Able to connect 255 detectors to this panel.
 - Cyclic time for token is less than 2 sec.
 - Scanning system.
 - Connect between panel and detector over power line.
 - 33 volt / 5ma power for this panel.
- 9. **Control system data acquisition and report engine.**
 - Build software to collect mechanical system status and save in SQL database.
 - Period time is less than 1 sec.
 - Make reporting program to show the status for any part of system from time x to time y.
- 10. **Data encryption system by using dongle technology.**
 - Now I prepare to design hardware key for security software.
 - I study the product in the market to collect information.
 - Then I make the dongle by using ready hardware and software from.
 - Then I will design the software on ready hardware.
 - Then I will design the hardware.

11. Design and implementation car computer project software and hardware.
 - This project to improve the car behavior with the driver.
 - Save all event of the car in 24 hours.
 - Send this data wireless to the server immediately.
12. Design new version of isagraf programming language for PLC using previous versions files.
 - Make dp-ao card 56 channels instead of 32 channels.
 - Make dp-ai card 56 channels instead of 32 channels.
 - Make the installation is very speed.
 - Make the interface of the installation is more interacted.
 - Make the compiler without dongle (open version of isagraf).
 - Increasing more compilers to more processor.
13. Design redundant communication using GSM modem GEN40i form gener company for project in Saudi Arabia - GADDA
 - Programming the GSM modem using the script language and AT commands.
 - Design VB6 application for managing the communication between the HMI and GSM modem.
 - Prepare the document for the solution of the problem.
14. Student management system
 - This system has been designed for Delta University.
 - The system manages the student degrees and attendance for all years in the university.
 - The professor can handle all operation of the student from one screen.
 - Each user can take authority for some operation selected form special screen.
15. Burida project in Saudi Arabia (problem in GSM communicartion)
 - Configure the module RTU S530 from sofrel.
 - Setting the received and transmitter SIM cards.
 - Programming the PCWIN for monitoring the status of the RTU sensors.
16. Radio redundant communication using ACE3600 from Motorola.
 - Design a redundant communication system for a project water treatment in GADDA- Saudi Arabia.
 - Programming the HMI – INTOUCH for monitoring the RTU's from the operating communication.
 - Programming the FIU for take the information from master the Radio.
17. Distributed generation monitoring
 - Design a software and hardware for monitor DG.
 - Design a GSM circuit for wireless monitoring.

Awards

1. Obtaining the title of the ideal employee at the level of the General Administration of Electromechanical Engineering - Damietta Port Authority in 2016
2. Obtaining the title of the ideal employee at the level of Damietta Port Authority in 2018
3. Obtaining a certificate of appreciation from the Delta University for Science and Technology in order to participate in the advancement of the university.
4. Certificate of Appreciation for obtaining a research project presented at events and a student conference for presenting research and student projects at the Japanese University 2018.
5. Getting first place for the graduation project "Embedded system for leakage detection in pipeline" in the competition held at Port Said University 2021.

Conferences & Workshops

1. Participation in the activities of the International Conference on the Role of Joint Projects in Achieving Arab Economic Integration, held at Delta University 2012



2. Participation in the organization and activities of the International Conference ICI14 in 2014.
3. A workshop entitled Statistics at Your Service, held at Delta University of Science and Technology 2014
4. Arbitration of research papers of the scientific conference for students held jointly between Damietta University and Delta University (future scientists) in 2018.
5. Participation in a research project in the student conference held at the Japanese University 2018.

Quality works

1. Participation in quality work at Delta University to obtain accreditation from the Quality Assurance and Accreditation Authority.
2. Coordinator of the financial and material resources standard for self-study of the Faculty of Engineering, Delta University of Science and Technology, from 2016 until 2022.

Thanks for your interesting,,,