

Ahmed E. Mohamed, MSc.

Curriculum Vitae



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WORK EXPERIENCE

VDIS

CURRENT, FROM OCT 2017 (FT)

Senior Embedded systems Engineer

Maintain, upgrade and modify embedded systems as needed. Work with Manager in developing technical specifications based on customer requirements. Analyze system technical issues and develop appropriate resolutions. Coordinate with design, development, testing and implementation teams to plan and complete assigned projects within deadlines. Participate in system design reviews and recommend improvements. Identify technical risks and challenges and propose action plans. Support in integrating modules to existing systems and perform integrating testing. Assist in preparing system design and architecture documents. Provide support in system testing and bug fixing activities. Assist Manager in determining project budget and timelines.

CIC

FEB 2017 – APR 2017 (PT)

PAC Development Trainer

Responsible for training undergrad students to use the state of the art industrial NI PAC controllers in advanced motion planning and sensor array deployments in hazardous areas

EgyCet

MAR 2015 – JUNE 2016 (PT)

Instructor

Responsible for teaching “HIT” students a complete electronics professional diploma including digital, analog, and mixed electronics.

ALPHA ELECTRONICS

JUNE 2015 – MAR 2016 (PT)

Embedded Systems Architect

leading a technical team to design, analyse, implement, test, and support the company products. This team activities includes schematic, wiring, simulation, PCB layout, testing, and delivery of projects.

ATOMIC ENERGY AUTHORITY

SEPT 2011 – SEPT 2013 (PT)

Intern

Co-developed “RADMON” project to monitor, record gamma radiation levels and provide various alarming levels.

DELTA SUGAR COMPANY

JUNE 2010 – SEPTEMBER 2010 (FT)

Intern

Trained to handle both modern industrial automation system, data acquisition systems and drivers.

THE EGYPTIAN COMPANY FOR ELECTRICAL POWER TRANSMISSION

JUNE 2003 – MAY 2005 (FT)

EDUCATION

2017 – PRESENT

Master of Science

Computer Engineering
Cairo University

2017

Master of Engineering

Computer Engineering
Cairo University

2008 – 2013

Bachelor Computers Control Engineering

FIRST CLASS HONOURS

Computers Control Engineering Department
OHIE

COMPUTER SKILLS

PRODUCTIVITY

System design, UML, \LaTeX

SOFTWARE

Algorithm design, Web, GIS, DB, OS

HARDWARE

Automation, ICT, PCB

COMMUNICATION SKILLS

CONFERENCES

Oral presentation at ICCES 2017

LANGUAGES

Arabic, English

SKILLS

Goal Oriented

I believe in action over long-winded discussions. I listen to everyone's viewpoints and use my judgement to immediately act based on consensus to achieve goals quickly and efficiently.

Passionate

I have been interested in theoretical physics such as quantum mechanics and relativity from an early age. My education and research have cemented this interest into a passion. I greatly enjoy carrying out fundamental physics research with potential practical applications.

Hobbies

I'm interested in practicing running, rowing, reading, and classical guitar

HPC

BigDL, Spark, Hadoop, Cloud systems design, GPGPU

Protocols

ATM, USART, I2C, SPI, CAN, LIN, Profibus, ProfiNet, MODBUS RTU, OPC, USB, TCP, IP, PCI

Programming Techniques

Multi tier, OOP, MVC, Data flow, Functional, RTOS

Programming Languages

Intern

Trained to operate and maintain power transmission substations and different kinds of faults.

REFERENCES

Heba El-quadi

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Magda B. Fayek

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PROJECTS

| | |
|-----------------|---|
| GOPP | GIS |
| ENF-COMM | Web portal & mobile application |
| MOJ | ICT infra-structure assessment |
| ESA | Automating Agricultural Records Systems |
| HAIER | Refrigerator automation system |
| ALEX PETROLEUM | Oil treatment' waste refinement system |
| KEMPINSKI HOTEL | 200 Locations adaptive brightness control |
| ELISION | ELEVATOR EMERGENCY BACKUP SYSTEM |
| EAEA | Nuclear plant remote logging, and alarming system |
| OHIE | Remote realtime image transfer |

C98, C99, ANSI C, C11, CUDA C C++11, C++17, Python, C#, JAVA, LabVIEW, LADDER, Structured text, Swift

Circuit design and printing

Altium designer, Mentor graphics expedition PCB, Circuits thermal simulation, EMC analysis

Meta-heuristics

Genetic Algorithms, Ant Colony, Bee colony, Bee hive, Gray wolf

Machine learning

Clustering, Classification, Regression

Technology

KERAS, Open CV, SKLearn, Theano, Torch, Tensor flow

PUBLICATIONS

Ahmed Ezzat (2018).GDD: Geometrical Driven Diagnoses Based on Biomedical data. *Journal of advanced research, Elsevier.*

Ahmed Ezzat (2017). Search space pruning by evolving probabilistic strategies. *Computer Engineering and Systems (ICCES), 2017 12th International Conference on. IEEE, 2017*

Ahmed Ezzat (2017).A Comparative Study of Software Test Case Generation Tools for JAVA. *SME*

Ahmed Ezzat (2017).Fitness Aware Adaptive Mutation For Genetic Algorithms. *RG*

Ahmed Ezzat (2017).SpiNNaker Survey. *RG*