

# Yasser Hamed Khalaf

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Military Status: Exemption

## EDUCATIONAL BACKGROUND

2013 – 2017	Bachelor of Science in Electrical Power and Machine Engineering, Faculty of Engineering Cairo University (FECU). Grade: Distinction with honors (89.6%)      Rank: 5 <sup>th</sup> Graduation Date: July 2017
2011 – 2013	El-Orman Secondary Schools, Math Section      Grade: 101%

## WORKING EXPERIENCE

Jan 2018 – (present)	TA at mathematics and physics department at the faculty of engineering Cairo university (FECU).
September 2016 – Jan 2018	Part time <b>R&amp;D</b> engineer at Center of Nanoelectronics and Devices at the American University in Cairo (AUC) working on Solar Inverter Project.
2017 (July to December)	Part time electric power design engineer for <b>CUBE Design</b> consultant office.
2017 (July to August)	Instructor and coordinator for Engineering consultant group (ECG) summer training sessions and <b>MATLAB</b> introduction course.

## EXTRACURRICULAR ACTIVITIES

2002 – 2016	Professional <b>KUNG-FU</b> sports member at Heliolido Sporting Club (HSC)
2014 – 2016	<b>Team Leader</b> for Classic Control and PLC workshop at <b>IEEE CUSB</b> student activity
2014 – 2016	Member at the information resource center (IRC) at the US Embassy Cairo
2014 – 2016	<b>Batch representative</b> and <b>Host</b> of electrical department day at <b>FECU</b>
2013 – 2015	<b>IT</b> member and Participant at “ <b>Robotics</b> ” workshop at <b>STP</b> student activity

## SUMMER INTERNSHIPS

2016 (August to September)	University to Work 8 (UTW-8) Program sponsored by <b>Schneider Electric</b> .		
2016 (June to July)	Summer training at <b>Dar Al-Handasah</b> (Shahir & Parteners), Egypt Section.		
2015 – 2016	Intelligent Servo Systems using <b>Schneider Electric</b> products at Automatic Control Lap. <b>FECU</b> .		
2015 (September)	Technical sessions and factory tours in ASEA Brown Boveri ( <b>ABB</b> ).		
2015 (August)	Electric power installation at <b>E-Finance</b> Office Building – Smart Village.		
2014 (August)	Egyptian Petrochemicals Holding Company ( <b>ECHEM</b> ).		
2014 (July)	Classic control and Transformers workshops at Network Training Center.		
Field Trips			
. Alcatel-Lucent	. Dar Al-Handasa head office	. 3 Brothers factory	. FINE factory
. EgyTrafo factory	. Al zaafrana power plant	. Schneider head office	

## PROJECTS

Solar inverter project	Design and implementation hardware of industrial solar inverter project and developed control techniques using MATLAB Simulink and C++
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Products palletizing using vision guided robotic arm

(Graduation project)

Using a 6 degrees of freedom vision guided **Mitsubishi** robotic arm, supported by a vision system, mechanical suction cup, conveyor, and graphical user interface program using C++ programming, products' dimensions are detected then palletized in pallets without human's involvement (sponsored by **P&G** as products and production data supplier)

Object tracking using color detection

Achieved a 2-D Vision Guided Robotic System (**VGRS**) using a 3-axis cartesian robot, motion controller, and a vision system

Intelligent Servo Systems

Intelligent motion control of 3-axis Cartesian **Schneider** robot using Modbus and TCP/IP Ethernet communication protocols

DC motor control

· Modeling and analysis · Analog and digital speed control

Electric power consultancy

- **Islamic Military Counter Terrorism Coalition** building at Saudi Arabia (Cube Design)
- **Tahlia Mall** building at Riyadh (Cube Design)
- **Mars Foods** building at 6-october city (UTW-8 program) (ECG)
- **Head of the Holley Mosque** building at Mecca (Dar Al-Handasah)

## QUALIFICATIONS

### Skills:

- Accepting criticism as a part of self-development and achieving a great work output under stress.
- Strongly Able to take on responsibility, Quick learner, keen to learn and improve skills.
- Team working skills, love breaking records and time plans, taking risks, and competition spirit.

### Fields to Be Interested:

- Automation and control.
- Solar systems and renewable energy.
- Project management and supply chain.
- High voltage and protection.
- Computer programming.
- Electric machines.
- Electrical power installation and distribution.

### Online Courses:

- Image Processing using Opencv and Visual Studio
- Embedded Systems (AVR, PIC)
- (Organic solar cells **OPV**) prepared by THE TECHNICAL UNIVERSITY OF DENEMARK (**DTU**)

### Computer Skills:

- ABB and Schneider automation programs (ABB builder, CoDeSys, Somachine, Somove).
- Automation programming PLC languages (Motion Function Block, Ladder Diagram).
- Computer Programs Such as (Matlab, Simulink, CIROS programming, Protues, ECTS, Micro C, Visual Studio, QT creator, Atmel Studio, AutoCAD, DIALux, and MS Office).
- Programming languages (C, C++, Matlab) and basics of (HTML5, CSS3, PHP).

### Languages:

Arabic

My tongue language

English

Excellent

German

Beginner