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## *Ayman Soliman Selmy Mohamed*

<p><b><u>Personal Information :</u></b></p>	<p><b>Marital status</b> : Married.  <b>Nationality</b> : Egyptian.  <b>Birth Date</b> : 22/06/1986.  <b>Religion</b> : Moslem.  <b>Military Situation</b> : finished.</p>
<p><b><u>Academic Qualifications:</u></b></p>	<p><b>2014</b>     <i>Benha Faculty of Engineering – Benha University , Egypt</i></p> <p><b>Master degree of Science in Electrical Engineering Technology</b>  <b>Department: Electrical Engineering.</b>  <b>Title:</b>  <i>" A study to design an ultrasound cylindrical phased array used for hyperthermia treatment "</i></p> <p>Research has shown that high temperatures can damage and kill cancer cells, usually with minimal injury to normal tissues. By killing cancer cells and damaging proteins and structures within cells, hyperthermia may shrink tumors.</p> <p>Supervisor  Assoc. Prof. Mahmoud Fathy Mahmoud  Dr. Wael Abdel-Rahman Mohamed</p> <p><b>2008</b>     <i>Benha Higher Institute of Technology</i>     <b>Banha , Egypt</b></p> <p><b>B.Sc. of Electrical Engineering</b>  <b>Department: Measurement and Control Department.</b>  <b>Grade: (85.39%)</b>     <i>Excellent with Honor Degree.</i></p> <p><b>Graduation Project details:</b>  <i>"metro &amp; underground controlling systems using-PLC-programmable logic controllers"</i></p> <p>Including system level simulations, circuit design (H/W &amp; S/W) and full working system implementation.</p> <p><b>Supervisor</b> : Dr. Eng. <i>Mona N. Eskander</i>  <b>Project Grade:</b> Excellent.</p>

## Computer Skills:

### 1. EDA software:

- AutoCAD 2019.
- Revit Electrical.
- Matlab 2017 (m file- Simulink).
- Orcad 10.5 (*Electronic Circuits EDA*).
- PLC(programmable logic controller)
- Circuit wizard.
- Pspice 6.
- Program Studio (*8051  $\mu$ Cs*).
- DSP (digital processing signals).

### 2. Programming Languages:

- Familiar with C/C++.
- Basic and visual basic.

### 3. Operating Systems and other software:

- Windows 9x, ME, XP, Vista, Linux, 7, 8, 8.1, 10.
- Ms Office 97,2003, XP,2007,2010,2013,2016 (Word, Excel, Power Point).

### 4. Graphic programs:

- Adobe Photoshop.
- Acd see.

### 5. Other Experience:

- Star delta starter project (2005).
- Reversing 3ph motor direction project (2005).
- Intercom project (2005).
- 3ph fully controlled rectifier (2006).
- Motor speed control using SCR (2006).
- 3ph inverter project (2006).
- Electronic stethoscope equipment (2007).
- Temperature measurement using microcontroller (2007).
- High experience in the graduation project (2008).
- Good experience in electrical work (2008-2011).
- Electrical application lab (2012).
- Graduation project supervisions (2012-2019).

**Training and Experiences:**

**2007**

*gulf of Suez petroleum co. ( gupco)*

**Cairo , Egypt**

**Include : power housing department:**

- Gas turbine, advantages and disadvantages.
- Turbine operation.
- Generators.
- Excitation system and gcu.
- 110 VAC uninterruptable power supply.
- Paralleling Synchronous Generators.
- Load sharing.
- Woodward features.
- Protection Relays.
- Circuit breakers

**Include : gas plant department:**

- Introduction
- The Incoming gas.
- Separators.
- Compressors.
- Safety Relieve Valve.
- Inlet Area.
- Drying package.
- Dehydration.
- Regeneration.

**Include : *Oil Plant* department :**

- Oil Plant Construction
- Wells , Hedras , Manifolds
- Chemical Tanks & Fire Extinguisher.
- Scimmer and separators.
- Test separators and knock out drum.
- Filters and oil tanks.
- Foam tank oil.
- *booster machine*
- pumps and desalter
- Heater.

**(2005) south delta for distributing electricity company**

**Include:**

- Electric engineering principals.
- Electric quantities.
- AC electrical loads types.
- Power triangle.
- Power factor improvement.
- Distribute transformer maintenance.
- Maintenance methods.
- Transformer related instruments.
- Distribute transformer faults.
- Overhead transmission lines.
- Overhead transmission lines feeding.
- Overhead transmission lines selection.
- Comparison between primary and secondary lines.
- Medium voltage elements.
- Medium voltage electric circuit properties.
- Electric power meter.
- Electric power meter construction.

**Other Skills:**

- Good in using computer and internet applications.
- Good knowledge in designing, simulation, and setting electronic circuits and systems.
- Some experience in electronic devices maintenance such as Radio Cassettes.
- High communication skills, self-motivated and eager to learn.
- Pleasing manners and capability of working under pressure and meeting deadlines.

**Languages:**

- **Arabic:** Mother tongue.
- **English:** Very Good Speak, read, and writes.
- **English:** passed the TOEFL certification.

**Teaching Subject**

- Distribution Projects (from 2012 to now).
- Power system (from 2012 to now).
- Programming language (from 2012 to now).
- Electrical application (from 2012 to now).
- Electrical circuit analysis.
- Microelectronics analysis.

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|  | <ul style="list-style-type: none"><li>➤ Biomedical engineering.<ul style="list-style-type: none"><li>➤ Clinical equipment management (from 2012 to 2015).</li><li>➤ Electrical safety (2015)</li><li>➤ Electrical distribution systems (from 2013 to now).</li><li>➤ Real time systems (2012).</li></ul></li></ul> |
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