

Mohamed Mahmoud Abdelbaky

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Date of Birth:	1/10/1993
Marital Status:	married
Military Service State:	completed

OBJECTIVE: -

Highly creative and focused on machines, drives, automation, control systems, instrumentation and process control with implementation, configuration, management and troubleshooting power components and system .as well as outstanding organizational, multitasking, and team working skills at all levels. Quick to learn new skills in fast-paced control systems.

EDUCATION: -

- **Bachelor's degree in electrical power and machines** Faculty of Engineering, Menofia University (**Good 73%**) (**July 2016**).
- **Graduation Project: - control of DC motor fed from photovoltaic system.** (**Sep. 2015 – July 2016**) Grade (**Excellent**).

INTERSHIPS EXPERIENCE: -

- **Shobra Elkhema power station (July 2014)**
 - Overview about generators, transformers, protection systems and power transmission.
 - Monitoring and operation Generators, transformers.

WORK EXPERIENCE: -

- Working as an **Operation engineer at RATPDEV Mobility Cairo (RDMC)** from April 2022 until Now.
 - **Duties: -**
 - Monitors the conditions of the workshop and trains through the control systems and participate in ensuring that any abnormalities are effectively resolved.
 - Make routes for train circulation using the traffic control system.
 - Prepares the plan of stabling and un-stabling of trains.
 - Monitor the Alarms/Events through SCADA workstation.
 - Supports CCP traffic controller, CCP supervisor during failures and incidents.
 - Give information and/or instructions to the train drivers inside the depot.
 - Manage the power supply network management inside the depot.
 - Feeds electrical power to the depot (stabling tracks, depot tracks) based on the request of Maintenance Direction.
 - Report any issues and hazards.
 - Working as a Maintenance and Facility Engineer at Cairo **International Airport at Eng-SysTech (Engineering Systems Technology)** from December 2021 until April 2022.
- Duties: -**
- Monitor and Operation of SCADA System.
 - Maintenance and troubleshooting of SCADA and PLC System.
 - Signal test for SMDBs and MDBs control panels.
 - Tracing and Troubleshooting Modbus RS-485 serial communication loop Devices as (Power meters, Protection Relays SEPAMs, APC UPSs)
 - Preventive maintenance of control panels.

- Worked as a maintenance and control engineer at plastic injection factory at **Toshiba Elaraby Group** since December 2018 until December 2021.
 - Duties: -
 - maintenance and control of plastic injection and blowing machines, robots, conveyor belts, heaters, cranes, and blowers.
 - Install and maintenance of control and power panels.
 - Install and maintenance of electrical and mechanical equipment.
 - Managing a team of technicians to perform repairs and maintenance.
 - Implementation of all preventive maintenance according to the program.
 - Dealing with emergency problems and repairs.
 - Report any maintenance issues and hazards.
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- Worked as Hardware test engineer at **Servo technology company** since March 2018 till November 2018.
 - Duties: -
 - Hardware test and Maintenance of power electronic and control devices such as (AC Drives, PLC, UPS, Soft Starters, electronic cards,etc..) .

INDEPENDENT COURSES: -

- Operations management
- Maintenance management
- Classic control
- PLC advanced
- Electric machines and drives
- Instrumentation and Process control
- Industrial communications
- Hydraulic and pneumatic systems
- Power electronics
- C++, C# & OOP Programming

Technical Skills and ABILITIES: -

- **Classic control:**
 - Design and calculate classic control circuits.
 - Install and wiring automatic control circuits.
 - Reading automatic control wiring diagrams.
 - Maintenance and troubleshooting of automatic control circuits.
- **PLC Advanced:**
 - Programming PLC with ladder diagram.
 - Software: - Siemens (Simatic Manager and TIA Portal), Unity pro (Schneider), Delta (WPLSoft)
 - Download and upload PLC programs.
 - Troubleshooting and maintenance faults of PLC Software and Hardware.
 - Connection between PLC and drives (digital and analogue) signals.
 - Can use different PLC types as Siemens, Schneider, Delta, Mitsubishi, etc.
- **Electric motors and drives:**
 - Choose the suitable drive for motor and application.
 - Reading the manual of the drive.
 - wiring drive power and control connections.
 - Programming control parameters according to manual.
 - Connection between the drive and PLC (digital and analog signals).

- **Instrumentation and Process control:**
 - Reading P&ID diagrams.
 - Temperature, pressure, level, and flow control.
 - Using different types of sensors and transmitters as thermocouples, pressure transducers, liquid level sensors, etc.
 - adjustment of close loop PID controller for different applications.
 - Connection and adjustment of temperature PID controllers.
- **Hydraulic and pneumatic systems:**
 - Reading hydraulic and pneumatic system diagrams.
 - Maintenance and control of hydraulic and pneumatic systems.
 - Knowledge about different types of pumps and valves (functions and properties).
 - Knowledge about pistons working and functions.

SOFT SKILLS: -

- Microsoft office (word, excel, power point).
- Good communication and Team working skills.
- Hard Working, Fast Learning and Time management.
- Self-learning and reading online courses.

LANGUAGE: -

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- **Mother Tongue: - Arabic**
 - **Second language: - English** (very good reading, writing, listening, and speaking)