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**Personal Data**

* Marital status: Married.
* Military status : Exempted
* Date of birth: Feb 12th1988, Cairo, Egypt
* Nationality : Egyptian
* Driving license : Yes

**Engineering profile**

Detail-driven engineer with great experience in quality control dealing with different manufacturing processes

Cost-conscious and analytical with history of success.

Skilled problem identifier and troubleshooter able to pinpoint and resolve errors in early stages to avoid time/cost

Expenditures.

Optimizing quality and production processes in fast-paced manufacturing environments.

Increase quality, productivity and profitability through keen data analysis and process design; significantly improve operations and provide sufficient resolution of production issues.

**Education**

* + **Faculty of Engineering, Helwan University.**
  + **Bachelor Degree in Mechatronics Branch, Mechanical Engineering Department -Year 2009.**
  + Graduation project Grade: **Excellent**.
  + Accumulative grade: **Good**.
  + High School grade: 94.5%.

**Areas of Expertise**

* **Lean Green Belt (With Symbios Consulting**) - Statistical Process Control (**SPC**)
* ISO Certifications(**ISO9001**, **ISO14001** and **OHSAS18001**) - **Lean** manufacturing
* **5S**& Kaizen - Just in time (**JIT**)
* One piece flow - Line balancing
* Cost reduction - Problem solving techniques
* Continuous Improvement process (**CIP**) - **FMEA**
* Sampling methods - Calibration
* Sheet metal pressing and trimming operation - **5D** built in quality
* Process mapping - Visual factory
* Standardized work instructions - Productive maintenance
* Enamel Coating - Electrostatic coating
* Quality Marks Tests (**SASO**, **SABS**, **EQM**, **JQM**...) - After sale center data analysis

**Professional Experience**

**logo[1].pngUniversal for home and electrical appliances - 6th of October February 2013 - present**

**Quality Control Section Head**

**Responsibilities**

* **Responsible for the quality inspection process of the following:**
* Electrical water heater assembly line (inspection stations) - Water tank welding inspection
* Enamel coating inspection - subassembly processes inspection
* Gas water heater assembly line ( inspection stations) - After Sale Service Center
* Inward inspection - Sheet metal workshop inspection
* **Responsible for investigating and defining root causes and corrective action of issues related to :**
* Assembly production process
* Sheet metal workshop ( mostly dies issues)
* Inward inspection process ( includes meetings with supplier and getting involved into their process to identify root causes for rejected patches)
* Sub-assembly production lines
* Service center returns
* **Responsible for the monthly reviewing, analyzing, issuing and structure of the corrective action plan of:**
* IQI report ( Inward quality index for the inward section as a follow up for suppliers )
* Sigma Level report ( Six Sigma applied as a process capability indicator )
* QMI report ( Quality measure index for the final product)
* RI report (Reliability Index for the final product )
* Replacement PPM ( Analysis for the after sale service center returns )
* **Responsible for training team of 60 quality inspectors to ensure their sufficient capabilities for measuring , recording, monitoring , visual inspection, essential knowledge of lean manufacturing, statistical analysis and calibration.** All to ensure a continuous improvement for the skill matrix of the entire team including myself.

**Techniques used in the field**

* Statistical analysis (Control charts, sampling techniques, process capability analysis and cause and effect diagrams)
* Lean manufacturing ( continuously starting projects to eliminate waste while preserving value )
* Problem solving techniques (fish bone, five why’s ...)
* CIP ( continuous improvement process)
* [Fiche De Poste](https://www.google.com.eg/search?espv=2&biw=1366&bih=667&q=fiche+de+poste&spell=1&sa=X&ei=T2s1Va3pJ4LKaLTxgcAD&ved=0CBgQvwUoAA) ( A process sheet that ensures the right components have been assembled to the product in hand)

**Electrolux/Olympic Group - GC Factory - 10th of Ramadan January 2010 – feb 2013**

**logopr[1].pngFinal inspection and after sale service Section Head**

**Responsibilities**

* **Responsible for the quality inspection process of the following:**
* Assembly line - Sheet metal workshop
* Sub-assembly lines - Inward section
* Factory Laboratory - After Sale Service Center
* **Responsible for investigating and defining root causesand corrective action of issues related to :**
* Assembly production process
* Sheet metal workshop ( mostly dies issues)
* Inward inspection process ( includes meetings with supplier and getting involved into their process to identify root causes for rejected patches)
* Sub-assembly production lines
* Service center returns
* **Responsible for the factory laboratory including :**
* Lab tests applied on the product components
* Performance tests on the factory products
* Reliability tests on the factory products
* Quality Marks Tests (SASO, SABS, EQM, JQM...)

**New projects achieved**

* Implementing a new **Control Plan** for all factory processes.
* Structure of a new **Calibration Plan** that contains all measuring and test devices that affects the quality of the product.
* Continuous improvement of **work instructions and procedures**.
* Updating **sampling plans** for all inspection instruction.
* Started **FMEA** integration in factory processes.

**Key accomplishment**

* **Achieving ISO 9001, ISO 14001 and OHSAS 18001 Quality marks while in charge of the QC department .**
* Building a new **Calibration Plan** instead of the old system that was insufficient.
* Applying new **statistical techniques** to the quality control data acquisition and monitoring.
* **Was assigned with the responsibilities and authorities of the Quality Control Manager from**

**August 1st -2010 to Jan 1st 2011 ( Then again from july 2011 till feb 2013) as the QC manager resigned**

**Graduation project**

**The Exoskeleton Robotic Arm**

* **Is a full functioning robotic arm used for medical rehabilitation.**
* The Exoskeleton main objective it to aid stroke victims to recover and restore the ability to control their arms and perform the essential tasks.
* Control system: A MatLab program controlling a solenoid that controls the movement of the actuators.
* Actuators used for the robotic arm: 3 pneumatic actuators for each joint.
* Project was sponsored by **Nahdet El-Mahrousa**
* Participated in EED 2009 by **IEEE** Egypt.

**Projects during and after college**

* **Project Management:**
* Full project planning, project budgeting, cost & revenue forecasts preparation, resource allocations, work progress monitoring, project Control and project closure (project was established at **Bavarian Auto Group** on the door assembly line of the **BMW 7 series**)
* **Automatic Control:**
* PIP, Intelligent, Adaptive, Digital and Analog control systems and its mechanical and electrical applications.
* System modeling, design, evaluation and validation.
* PLC programming by ladder diagrams. (Siemens S7)
* Microcontroller (Intel 8051Chip) programming- circuit designing.

**Courses and trainings**

* **2013**
* **Lean Grean belt certification – Sympios Consulting**
* **2012:**
* SPC (**Statistical Process Control**) training course (including problem solving techniques)
* TOT (Training of trainers)
* Negotiation skills course (internal OG training)
* **2011:**
* Project Management training at **Bavarian Auto group** (BMW) , Engineering Management

Department (Project management, new models project planning)

* **2010:**
* MATLAB and Simulink advanced course.
* Visual .NET course.
* **2009:**
* MATLAB Essential course
* AutoCAD advanced
* **2008:**
* Training at **ArabOrganization for Industrialization**, CNC machines section
* **Micro-Controller** Course at JELECOM-EGYPT
* **Microsoft Project** course

**Computer skills**

* Autodesk Inventor
* Autodesk AutoCAD.
* Microsoft Project (project management).
* Microsoft Office.
* MATLAB (Programming, Control, Simulink).
* Macromedia Flash. (self-education).
* Dreamweaver (self-education).
* Visual Studios – Visual .NET

**Language skills**

* Arabic: mother language.
* English: fluent written and spoken.
* French: fair

**Personal Competence**

* Ability to work under pressure.
* Self motivated.
* Very eager to learn, acquire experience and new capabilities.
* Hard worker and patient.
* Has the technical and literal experience needed to carry on different projects.
* Competitive and Cooperative.
* Very understanding and supportive.