

Holds a B. Sc. in Mechanical Production / Design Engineering and has about 12 years hands-on experience in Mechanical Production / Manufacturing / Automation / CNC machines / Mechanical Design. He performs a variety of technical industrial assignments and designs preparations including conventional machine tool operation, blueprint reading / 3D Design g drawings, precision measurement tools, set-up, programming and operation of CNC Laser / Punch, lathes and mills, and the operation of CAD/CAM systems. CAM Tools Siemens 840D & Heidenhain.

## **PERSONAL DATA**

Nationality : Egyptian  
Birth Date : 17/10/1980  
Gender : Male  
Marital Status : Single  
Residence : Cairo

## **EDUCATION**

: B. Sc. in Mechanical Production / Design Engineering, Helwan University, 2004

## **LANGUAGES**

Arabic : Native Language  
English : Excellent

## **COMPUTER SKILLS**

: Windows, MS Office, Internet  
: Autodesk Inventor / AutoCAD 2013  
: Tru-tops Laser & Laser-Tube (CAD / CAM)  
: Siemens 840D & Heidenhain controls  
: Solid Works 2010 / Tube Design  
: Tru-tops Punch (Nesting, CAD / CAM)  
: Del-CAM Package and G code

## **TRAINING COURSES AND CERTIFICATIONS**

: PMP Course, MS Project Planning at Cairo, Challenge (60 hours) (Jun. 2016).  
: CNC LASER TUBE Machine 5000, Stuttgart, Germany (Jan. 2011).  
: SHEET METAL CONCEPTUAL DESIGN, Stuttgart, Germany (Jun. 2010).  
: CNC DMU 70 EVO 5 Axis, GERMAN UNIVRSITY IN CAIRO (Aug. 2009).

- : Main training programs:
  - Practical Skills gained: CAD/CAM, CNC Laser and Punch Programmer on Tru-Tops, Fundamentals of Laser Tech., Evaluate Cutting quality, Produce Optimization Programs, Machine operation (Start-Shut Machine, Laser-Head / Tools selection, and Setting Work-Piece / approaching reference point).
  - Quality of the trainings held in DMG Training Academy (Deutsch Instructors / Trainers / Installers): DMG send Trainers to Egypt for 3 months for Installing, Commissioning & Training on the machines.
  - Sinumerik 810D turning, Emco Machines, Don Bosko Institute (Jul./Aug. 2007).
  - CTX 410 (Mill/Turn 3 axis Technology), DMG Training Academy (Deutsch Trainer) (from Dec. 2009 for 90 days):
    - Shop Turn with (A) axis.
    - Set-up Work Pieces.
    - Create tools & Selection of Feed & Speed.
    - Machine operation.
  - Genesis evolution for CNC wood Router machine control (Wood Working), Industrial Park, Felder Hanger (summer 2007).
- : Attend 3 month training inside Zamil Steel Egypt, at several Manufacturing departments (Maintenance, Quality Control, Production Planning and Production) then I assigned to be a Site / Erection Engineer.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Jun. 2016 till now  
**Employer** : Pro-Mech Engineering  
**Job title** : CNC Senior Sales Engineer

**Dates** : From Jun. 2015 till Jun. 2016  
**Employer** : EXCEL METAL (EMI), SWITCHGEAR/ FIRE RATED DOORS – New Industrial Area, Doha – Qatar  
**Job title** : Operation In-Charge  
**Job Description** :
 

- Attend site meeting with customer to collect their requirements about the products of the projects and submit this data to design department to prepare general drawing for approval.
- Preparing conceptual R/D designs for new products using Autodesk inventor, and transfer to DXF to start producing the prototype, gain Customer approval.
- Responsible for the production, design & Installations of Electrical enclosures, MV panels, Mounting plates, Extension boxes, fire hose cabinets, distribution box, furniture steel cabinets, stainless steel kitchen cabinets, substation doors, Fire rated doors.
- Check the availability of Accessories, hardware / material with store & check any particular requirements in Order to prepare material requests and submit to procurement department.
- Prepare production work order to release material for production & Supervise on all fabrication process from Punching / Welding / Finishing until powder coating, finally delivery to the site.
- Creating Master Production Plans /implement corrective or preventive actions to maintain the Work schedules for projects, to be consistent with

our deadline.

**Dates** : From Apr. 2014 till May 2015  
**Employer** : GILA TWAKOL, PANEL BUILDER – 10<sup>th</sup> of Ramadan, Egypt  
**Job title** : Manager for Medium Voltage Projects  
**Job Description** :

- Create 3-D CAD designs for M.V. Switchgears and preparing the Work-Shop drawings for the execution phase and implement the approved modifications during the execution phase.
- Determine and manage the best sequence for MV panels manufacturing activities (steel fabrication, Electrical, Copper Bus bar fabrication, wiring, testing phase, Delivery).
- Ensure that Quality Assurance activities, performed according to policies and procedures of the company, Ensure that all Sheet Metal Work Panels are built according to customer requirements.
- Observe & evaluate the effectiveness of production team work activities; recommend training to achieve maximum performance, Forecasting completion project time.

**Dates** : From Jan. 2011 till Apr. 2014  
**Employer** : GERMAN UNIVERSITY IN CAIRO  
TRUMPF, SHEET METAL FACILITY  
**Job title** : Production Manager  
**Job Description** : Responsibilities / Duties / Activities at TRUMPF HANGER:

- Responsible for generating CNC (CAD / CAM) programs, Set up plans & Optimization programs for TRUMPF CNC Punch- 3000, Flatbed laser 3020 & Laser tube cutting 5000.
- Make and Prepare 2D Flat Patterns as a DXF files from AutoCAD, copy to Tru-Tops CAD, convert in to GEO files and processing to NC to become a Production LST files.
- Coordinate and integrate production processes dependent on weekly & daily manufacturing priorities.
- Observing all CAD / CAM process, Detecting malfunctions as they arise; Support the day to day production through technical problem solving, expert judgment, facilitating and coaching.
- Create 3-D CAD designs and preparing the executive drawings for the production lines and performing the necessary modifications during the design phase.
- Prepare Products estimate costing, Production Performance reviews, weekly production variances.
- Coordinate maintenance repairs in a manner that will minimize downtime, manually checking on machines and report necessary maintenance schedules for Punch, Laser flatbed & bending machines.

**Dates** : From Jun. 2008 till Jan. 2011  
**Employer** : DMG-MORI-SEIKI, MANUFACTURING FACILITY  
**Job title** : CNC Engineer (Milling/Turning)  
**Job Description** :

- DMG, MANUFACTURING hanger: Ultrasonic35 / DMC 63V / DMU70Evo / DMF250 Linear / CTX410 / NEF 600 / GMX200S / Micro-set-Prima / WALTER AG, Training labs.

- Setting / Operating / Programming DMG Mill-Turn CNC machine CTX 410 (3 axis) using HEIDENHAIN.
- Setting / Operating Programming DMG 3 axis CNC milling machine DMC 63V using (Siemens 840D).
- Perform machine shop calculations such as determining cutting speeds and settings for turning/mill.
- Produce complex 3D Models and 2D drawings for parts & Parts Lists using (DelCAM-PowerSHAPE).
- Observing all CAD/CAM process, Taking measurements & Detecting malfunctions as they arise.
- Prepare / instructing Training notes for Customers/Students; also ordering tools necessary for training.
- Perform machine shop calculations such as Selection of Feed & Speed and settings tools.

- Dates** : From Sep. 2005 till Apr. 2008
- Employer** : Zamil Steel (Pre-Engineered Buildings)
- Job title** : Project Engineer
- Job Description** :
- Determine the best consistent method for erection to permits efficient and economical performance.
  - Coordinate between the site and the factory in order to accomplish the project.
  - Oversee and ensure that all construction activities are completed according to the system of commissioning and ensure finishing uncompleted notes.
  - Hands over the plant to client in line with the commissioning schedules and client requirements.
  - Planning the work schedules & planning Daily activities of the work, Reporting weekly Reports in addition to Checking the Quality of erection work according to Egyptian steel code.
- Field of experience** :
- Mechanical Production / Design Engineer with about 12 years commercial experience in the Designing, Manufacturing and Installations of Metal Products and Plate-Work projects.
  - Professional in preparation of any 3D design drawings for sheet metal products using Autodesk Inventor, with a proven record in Operating and Programming of CNC machines: Punch, Lasers, Plasma & Bending press, Professional in the operation of CAD/CAM systems.
  - During my term of service as a Production and Design Engineer, I performed a variety of technical projects assignments including: LV Enclosures, MV Panels, Distribution Boxes, Extension Boxes, Substation Doors, Fire Rated Doors, Cable Trays, in addition to all type of Steel Furniture and Cabinets: School Cupboards, Fire Hose Cabinets, Kitchen Cabinets, lockers and Racking systems.
  - I have Solid Background in R&D Preparations, Production Planning, Time / Cost Estimation, Material Selection, Procurement of Hardware & Accessories, Managing Teams, collecting requirements, Preparing of Compliance / Submittal Reports, forecasting projects completion, Ensuring Quality Control & Quality Assurance activities are performed according to the company polices & procedures to permits Efficient & Effective Work performance for products.

- Experienced in Precision measurement tools, Reverse Engineering Techniques, creating prototypes, determine products characteristics, scanners applications with operations skills in Set-up and Programming of: Turning, Milling and Mill-Turn CNC machines, using SIEMENS & HEIDENHAIN.
- Highlights:
  - Experience in Maintenance of CNC: Trumpf, Lasers / Punch / Bending / Laser tube, Applying Periodical, Corrective, Preventive maintenance and Conducting Tele-Diagnosis sessions.
  - Technical Instructor experience: Curricula preparing, conduct classes, for Machinery and sheet metal Technology, CAD/CAM operation, Freelancers Trainer for MCV Automotive Egypt.
  - Experienced with DMG-MORI-SEIKI Machines: Mill-Turn centers CTX 410 / Milling DMU 70 EVO 5 axis, attended the commissioning and machines start up trainings with installers.
  - Previous experience in: Ms Project, Delcam Power Mill / Power Shap, Shop Mill / Shop Turn.