**Athier Al-Shiekhly**

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**Profile**

*Over 25 years of Experience in HVAC and Production Engineering*

***Areas of Strength:***

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| * Construction of HVAC systems.
* Construction of Plumbing systems.
 | * Construction Of Fire-fighting systems.
* Manufacturing and CNC Programming.
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| * Project Management and Estimation.
 | * AutoCAD, MS Project and MS Office.
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**HVAC Skills and Abilities**

* Supervise the installation of **central air condition systems** including hydronic heating and cooling pipe installation and ducting and installation of chillers, air handling units and fan coils.
* Knowledge of **ASHRAE** and relevant codes and standards used for HVAC systems.
* Selection of suitable system according to the required technical specifications
* Construction of **Plumbing Systems** for commercial buildings considering **International Plumbing Code**.
* Construction of Fire protection systems considering **NFPA 13, 14 and 20**
* Coordinating the preparation of drawings, material lists, safety plans, and field installation with site crews
* Manage construction documentation (**Material submittal approvals, RFI, Inspection**), timelines for work progress.
* Prepares detailed Cost Estimates for required materials and equipment and Man-hour required and Manage construction timelines and employees using “**National Plumbing and HVAC Estimator**”
* Attend pre-construction meetings to ensure communication and coordination between contractors, project manager, office staff and employees
* Analyze drawings and specifications for an in-depth understanding of project requirements
* Liaising closely with other professionals, including architects, structural engineers, contractors, builders, and surveyors
* Using **AutoCAD** for plans drawing modifications and design

**Manufacturing Process Experience**

* Study mechanical drawings and create new and correct/modify/rewrite existing process sheets defining each operation required to move a component, sub-assembly or assembly through the complete manufacturing process from raw material to shipping
* Selection of suitable machines for manufacturing and determining the proper machining parameter according to workpieces specifications and material
* Programming CNC machines for Milling, Turning and EBW (Electronic Beam Welding)
* Using of CAD/CAM system to produce CNC programs
* Verify all specifications have been read and followed throughout the process plan
* Coordinate and review machining process with programmer
* Commended for strong technical drawing skills and efficient problem-solving and analytical skills
* Computer Skills include proficiency in Word, Excel, PowerPoint, Outlook, QuickBasic, and Matlab

**Professional Work Experience**

**HVAC Engineer** 2007 – 2021

AFCO Raslan & Co Heating Solutions Damascus, Syria

HVAC, Plumbing and Fire system project manager, start with

* Studying and analyzing project drawings, determining the materials and required equipment.
* Determine the man-hour required to accomplish the project before the deadline.
* Submit material specifications and workshop drawing to have the approvals required.
* Follow up project execution considering the timetables,  review the construction progress on-site,  project field review reports, respond to contractor RFI’s, prepare monthly invoices, follow up on the completion of the project plan,….etc.
* Work as HVAC, plumbing and fire system project manager at Tadamora Hotel in Palmyra/Syria as plumbing and fire system project manager in Damascus University hospital expansion.

**Chief Engineer (HVAC)** 2001 – 2006

Ministry of Construction, Housing, Municipalities and Public Works Baghdad, Iraq

* Working on preparing the materials for ducting, piping insulations and equipment like chillers, air-handling units, fans required for a variety of HVAC projects by asking for offers from suppliers.
* Analyze and evaluate offers both technical and financial wise.
* Work as project manager of HVAC projects like UM ALQURA mosque and ALWASITY hospital for plastic surgery.

**Practitioner Engineer (HVAC)** 1996 – 2000

Ministry of Construction, Housing, Municipalities and Public Works Baghdad, Iraq

* Manager of ducting and hoods manufacturing workshop.
* Manager of Air handling units manufacturing and assembly.
* Manufacturing of ducts according to SMACNA standards.
* Selection of Air handling units cooling and heating coils, supply and/or return fan, humidifiers and filters according to design requirements.

**Production Engineer** 1990 – 1993

Ministry of Industry Baghdad, Iraq

* CNC milling machine programming to produce sophisticated workpieces.
* Using Cad /Cam system for CNC programming of milling and turning machines.
* Manufacturing and assembly of different types of plastic, punching and forming die.

**Engineering Assistant** 1987 – 1990

Ministry of Industry Baghdad, Iraq

* Study mechanical systems drawing to manufacture and assembly these systems by issuing the technological processes steps using the required machining process like milling, turning, drilling and grinding, electric discharge machining and wire cut.
* Issuing programs for CNC milling machines, selecting proper machining tools with the proper cutting data.

**Education and Training**

M.Sc. in Production Engineering 1998

University of Technology Baghdad, Iraq

CNC Milling Machine Training 1989

SHW Company Aalen, Germany

B.Sc. Mechanical Engineering – Production Engineering and Metallurgy 1986

University of Technology Baghdad, Iraq

*References Happily Available Upon Request*