

Alhassan Abdullah Aljifre

Jeddah-23762 | Saudi Arabia | +966557663708

alhassanaljifre@gmail.com | www.linkedin.com/in/alhassan-aljifre-designer-pricing-MEP-

SUMMARY

HVAC, Plumbing, Fire Fighting designer 2D design through AutoCAD and Revit. Ability to set all Design Calculations and Specifications with high accurate and According to the international Codes ASHRAE-NFPA-IPC. Pricing engineer, capable to price all mechanical systems and special systems as subcontractor via Excel and Candy.

EDUCATION

University of Tabuk | 1/2018 – 3/2023

Bachelor's Degree in Mechanical Engineering

GPA: 4.74

WORK HISTORY

Estimation Engineer | 11/2023 - Current

- ✓ Mechanical Estimation Engineer (Studies Department) at Saudi Bin Laden Group (SBG-Haramain Division):
 - Study tender BOQ, quantities take off, sending enquiries to the / subcontractors vendors to get competitive quotations.
 - Establish direct cost resources required to execute various activities- Breakdown analysis-.
 - Find man hour for various activities from Spons reference.
 - Prepare vendors cost comparative study report to get financial selection of vendors/ subcontractor & price.
 - Capability to use Candy software (work sheet, resource list, subcontractor).
- ✓ Projects:
 - Holy Haram – Mataf Expansion Project. Makkah – KSA

TRAINEE ENGINEER | 06/2022 - 08/2022

- ✓ SAUDI BINLDIN GROUP- MATAF PROJCT
 - Understanding steps of construction project form basis of design document-BOD- to the end of implement.
 - Understanding Architectural plans.
- HVAC
 - fully understand to Psychrometric chart
 - Complete and detailed knowledge of the different types of air conditioning (Dx, Chilled water and VRF).
 - Selection of air distribution system.
 - Design air ducts in different ways.
 - Selection AHU and FCU from catalogs (knowledge of AHU's and Hookup component).
 - Types of fans, their required application, and how to choose them from suppliers based on the design.
 - Design HVAC system according to ASHREA code.
- Plumbing
 - Using different types of fixture unit in different facilities.
 - Calculating water needs in various facilities according to plumbing codes.
 - Design water supply pipes by Hunter method.
 - Calculating pump's power and circulating pump for several types of buildings.
 - Select pipes material in water supply, drainage and hot water.
 - Design plumbing's networks using one pipe system and double pipe system according to standards.
 - Using codes for pipe sizing.
 - Calculate inspection chamber and its pump.
 - How to install IC's pipes according to standard.
 - Design septic tank design
 - Design storm networks.

- Design Vent (individual, common, wet, waste, circular and island).
- Design swimming pool.
- Calculate required medical gas system for various application.
- Fire Fighting
 - Prepare package tender and bedding.
 - How to contact between consultant office and construction companies.
 - Familiar with codes to design fire fighting's network (civil defense, GCC and NFPA).
 - Design several fire fighting systems (water, gas and foam).
 - Select suitable types of sprinklers according to temperature rating and its distribution according to NFPA.
 - Calculate pipe sizing
 - Good coordinator with various systems and department.
 - Capability to make hydraulic pump calculation.
 - Calculate flow rate in pipes stand.
 - Make tanks' calculation and recommendations should follow to receive it.
 - Select suitable pump from catalog according to design calculation.
 - Design pump's room and its hookup.
 - Test the pressure fire fighting's network according to NFPA.

SKILLS

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|--------------------------|------------------------------------|
| • Multitasking Abilities | • Teamwork |
| • Attention to Detail | • Interpersonal Communication |
| • Problem-Solving | • Organization and Time Management |

CERTIFICATIONS

- HVAC design course at Engosoft and Courslia.
- Plumbing design course at Engosoft and Courslia.
- Fire fighting design course at Engosoft and Courslia.
- Revit (design and very familiar with tools and template) at Engosoft and Courslia.
- Shop drawing at Engosoft and Courslia.

Programs and Softwares

- AutoCAD, HAP, Duct sizer, pipe sizer Elite fire, Revit in progress
- Candy Software for estimating.
- Microsoft office.

LANGUAGES

- Arabic: Native language
- English: IELTS -B2-.