

Murali Krishnan Murugavel

Dubai

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Summary

HVAC Engineer with over 8 years of comprehensive experience in designing and implementing energy-efficient heating, ventilation, and air conditioning systems. Specialized in CHW and DX systems across diverse environments, including clean rooms, commercial buildings, industrial facilities, and residential projects. Proven expertise in equipment selection, heat load calculations, system drafting, cost estimation, and technical documentation. Adept at project coordination, client communication, and delivering customized HVAC solutions that meet both performance and budgetary goals.

Education

Britts Imperial University College – Sharjah, UAE Executive MBA in International Business Management

04/2025

Completed the program with a focus on risk management, marketing, strategy, ethics, consumer behavior, entrepreneurship, and global economics.

Capstone Project: -

* Optimization of Indoor Air Quality (IAQ), Demand-Based Ventilation, and Energy Consumption Practices for Enhanced Operational Efficiency.

MSC in Project Management

04/2025

Focused on the strategic role of the project manager, risk and resource management, and delivering project success across diverse industries.

Capstone Project: -

* Analytical Review of the Role of Project Management in Achieving Project Success.

NIA – Tamil Nadu, INDIA

Associate Diploma in Refrigeration and Air Conditioning • Coimbatore, Tamil Nadu

04/2017

I completed a course focusing on the fundamentals of Refrigeration and Air-Conditioning Concepts. My final-year project involved conducting an "**Efficiency Comparison Analysis of Multiple Type Evaporators**"

Primary Core Classification:

* History of HEATING, VENTILATION & AIR-CONDITIONING

* Psychometric chart process & Theoretical studies of calculations

* Essentials of Air-Conditioning Systems and Energy Recovery Solutions.

Experience

XTRON MECHANICAL AND ENGINEERING EQUIPMENT TRADING LLC.

Senior HVAC Design & Application Engineer • Dubai, Dubai

05/2024 - Present

Roles & Responsibilities

- * Coordinating with client/consultants and ensuring sales team completing the project with selection.
- * Study/review of tender documents, scope of work, drawings, BOQ specifications, client requirements, etc.
- * Verifying the client requirement and selecting the cost-efficient and power-optimized options with comparisons.
- * Preparing a comparison of commercial / technical details for project meeting, negotiations or finalization.
- * Preparing the technical submittals and relevant documents for client / consultant approvals.
- * Order tracking management and after-sales support and coordination.
- * Troubleshooting, testing and commissioning coordination.

LEMINAR AIR CONDITIONING COMPANY LLC - MUSCAT, OMAN.

Senior HVAC Design & Application Engineer • Muscat, Muscat

10/2021 - 05/2024

Roles & Responsibilities

- *. Study/review of tender documents, scope of work, drawings, BOQ specifications, client requirements, etc.
- *. HEAT-LOAD calculation and selecting efficient system based on site survey and condition.
- *. CHW & DX Equipment selection as per requirement. (CHW - AHU, FAHU, TFAHU, DX - VRF, SPLIT, PACKAGE).
- *. Preparing a comparison of commercial/technical details for project meeting, negotiation or finalization.
- *. Preparing the CHW & DX tender quotation, BOQ, Equipment selection, budgetary proposal and effective designs.
- *. Preparing HVAC layout as per the site survey with MEP coordination.
- *. Coordinating with consultants, architect, and private client and government clients.

KHAAYZEN EQUIPMENTS - COIMBATORE, INDIA.

HVAC DESIGN CONSULTANT • Coimbatore, Tamil Nadu

05/2018 - 09/2021

PSYCHOMETRIC DESIGN SOLUTION - COIMBATORE, INDIA.

HVAC DESIGN CONSULTANT • Coimbatore, Tamil Nadu

04/2017 - 05/2018

Roles & Responsibilities

- *. Preparing the HEAT-LOAD & Ventilation calculations as per the site survey. (HAP Software & Manual calculations).
- *. Preparing the tentative layout and budgetary proposals with a different type of options and suggesting the effective system with calculated design briefs.
- *. Selecting the equipment like VRF, Package, Split, CHW air side AHU, FAHU, TFAHU, Chiller equipment side, Kitchen Ventilation and ecology units.
- *. Psychometric case study and analysis based on the system-wise performance verification, comparing the performances of different systems.
- *. MEP coordination and leading the project from initiation to handover.

Brands & Software Experience

VRF & DX - RHEEM, TRANE, MITSUBISHI, CARRIER, LG & TOSHIBA.

CHW - CLIMA UNO, TRANE & YORK

CCU - TECNAIR

Skills

Analysis & Development, Customer Relationship Management, Communication skills, Project Management & Leadership

Major Projects

GENERAL HOSPITAL AT ADAM MINISTRY OF HEALTH OMAN - (FAHU WITH VRF SYSTEMS)

ISFC SEAFOOD CANNERY AT DUQUM SALALAH - (CHW AHU, FAHU & FCU's)

PDO - INTEGRATED OPERATIONS CENTRE BUILDING SALALAH – (CHW AHU, FCU's & DX VRF)

SARDINE & TUNA CANNERY PLANT AND ANCILLARY MUSCAT - (CHW AHU, FAHU & FCU's)

MIXED USE DEVELOPMENT AT MUSCAT HILLS – (CHW AHU, FAHU, FCU's & ECOLOGY)

CENTRAL PUBLIC HEALTH LABORATORY MUSCAT – (CHW AHU, FAHU & FCU's)

PLAZA - G+8 COMMERCIAL, RESIDENTIAL & OFFICE BUILDINGS MUSCAT - (CHW FAHU & FCU's)

NEW GENERAL HOSPITAL @ AL SHARQIYAH NORTH – MOH MUSCAT - (CHW FAHU & AHU's)

LUXURY SERVICE APARTMENT AND MARINE CLUB MUSCAT - (CHW FAHU & FCU's)

OMAN AVENUES MALL MUSCAT - (Kitchen Ecology units)

AD DHAKHLIYAH WATER TRANSMISSION PLANT PHASE 2 – (DX Roof mounted Package system)

MOD CAMP AT IBRI - (DX Roof mounted Package system)

COFFEE ROASTING FACTORY – (VRF & DX Roof mounted Package system)

SULTAN QABOOS COMPREHENSIVE CANCER CARE OF RESEARCH CENTRE - (DX Roof mounted Package system)

VISHAYE MANUFACTURING INDUSTRY CHENNAI – Chilled Water system – (CHW AHU, FAHU & FCU's)

EMERALD JEWEL INDUSTRY COIMBATORE - (Evaporative Cooling Unit)

Languages

English, Tamil, Malayalam

Vehicle Driving License

UAE License & OMAN License

Declaration

I certify that the information provided in the resume is true and accurate to the best of my knowledge.