Waquar Ahmad – HVAC Design Engineer Portfolio

Freelance HVAC Consultant | Specialist in U.S. Commercial Restaurant Projects 📍 *Remote Services from New Delhi, India* 📧 waquarmech@gmail.com | 📞 +91 9953848525 🔗 LinkedIn: https://www.linkedin.com/in/waquar-ahmad-75594b104 🌐 Website: *[Coming Soon]*

by Waquar Ahmad

Welcome to My Portfolio

👋 I'm Waquar Ahmad, a mechanical engineer and **freelance HVAC consultant** with **6+ years of global experience** in designing high-performance HVAC systems. I specialize in **U.S. commercial restaurant projects**, ensuring **IMC-, ASHRAE-, and IECC-compliant** systems tailored for efficiency, comfort, and cost-effectiveness.

During my time with **New York Engineers**, I contributed to projects for national brands like **Dunkin' Donuts**, **Popeyes**, **Pizza Hut**, and **Taco bell**. Now, I'm offering remote consulting services to U.S. restaurant owners, franchise developers, and design firms seeking trusted HVAC design expertise.

Services Offered

Design & Calculations

- HVAC Load Calculations (using HAP, Trace 700)
- Kitchen Ventilation & Make-Up Air System Design
- Equipment Selection and Layout Plans

Technical Systems

- Exhaust & Fresh Air Systems
- Air Conditioning systems
- Duct Design (AutoCAD & Revit MEP)

Documentation & Collaboration

- ComCheck Compliance (ASHRAE, IMC, IECC, IBC)
- Permit-Ready Drawing Sets (PDF / CAD)
- Remote Collaboration via Zoom, Bluebeam, etc.

Professional Experience

Mechanical Engineer – HVAC Design — **1**

IDOM Consulting, Engineering & Architecture, New Delhi 📅 *Oct 2024 – Present*

- Led HVAC design for global infrastructure and industrial projects (e.g., CCPT Rabigh Power Plant, HISC Substations).
- Ensured compliance with international codes: **EN**, **BS EN**, **IMC**, **ASHRAE**, **IECC**, **SMACNA**, **NFPA**.

2 — Mechanical Engineer – HVAC Design

Dar Al-Handasah, Pune 📅 *May 2023 – Sep 2024*

- Designed HVAC systems for luxury and commercial buildings in Sharjah, Dubai, and Saudi Arabia.
- Created technical documentation and coordinated cross-disciplinary design.

HVAC Design Engineer — **3**

New York Engineers, Pune 📅 *Mar 2022 – Mar 2023*

- Delivered complete HVAC design packages for U.S. restaurant chains.
- Specialized in **restaurant kitchen ventilation**, **load calculations**, and **permit-ready plans**.

4 — HVAC Design Engineer

DMBS MEP Consultants, New Delhi 📅 *Jun 2018 – Feb 2022*

- Designed HVAC systems for airports, shopping malls, and luxury villas.
- Gained proficiency in Indian codes: **NBC**, **ISHRAE**, **BEE**, alongside **ASHRAE**.

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Key Projects

🇺🇸 U.S. Commercial Restaurant Projects

New York Engineers

- Brands: *Dunkin' Donuts, Popeyes, Pizza Hut, Big Boy, Planet Smoothie, Dogtopia*
- Scope: HVAC layouts, duct design, kitchen exhaust, ventilation systems
- Code compliance: *IMC, IECC, IBC, ASHRAE*

🌍 Middle East Commercial Projects

Dar Al-Handasah

- **Aljada Mall** (Sharjah) – Chilled water & duct systems
- **Palm Jebel Ali Villas** (Dubai) – Custom HVAC for luxury homes
- **Avenue Mall** (Saudi Arabia) – Pressurization & ventilation systems

🇮🇳 Indian Infrastructure Projects

DMBS

- **Airports & Shopping Complexes** – Comfort design for public spaces
- **Private Villas** – High-efficiency systems for residential use

🌐 Global Industrial Projects

IDOM

- **CCPT Rabigh** (Saudi Arabia) – HVAC systems for power plant
- **Substations in Northern Ireland** – Load calculation & coordination

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Technical Skills

Category	Tools / Standards
Load Calculation	Trace 700, Carrier HAP
Modeling/Drafting	AutoCAD, Revit MEP
Clash Detection	Navisworks
Docs & Collaboration	Bluebeam, MS Office
Codes & Standards	ASHRAE, IMC, IECC, IBC, SMACNA, NFPA, NBC, ISHRAE, BEE

Why Hire Me as Your Freelance HVAC Consultant?

U.S. Market Expertise

Hands-on experience with U.S. restaurant HVAC codes and standards

Global Perspective

Experience delivering projects across the U.S., Middle East, Europe, and India

Efficient Delivery

Proven record of high-quality design and on-time documentation

Client-Focused

Responsive, flexible, and committed to understanding your specific needs

Remote Ready

Seamless collaboration via Zoom, Teams, or your preferred platform

Let's Get Started

Looking to design or upgrade your restaurant's HVAC system in the U.S.? Whether it's **Dunkin' Donuts, Popeyes, Pizza Hut**, or a new venture — I'm ready to help.

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Let's build something exceptional together.