

DAN KARLO M. HIGUIT



Senior Mechanical Engineer | ACMV & MEP Specialist

About Me

Senior Mechanical Engineer with solid experience in ACMV systems design, MEP coordination, and large-scale project delivery across residential, commercial, and infrastructure developments. Strong background in design, calculations, site coordination, and compliance with international standards including ASHRAE and NFPA.

KEY SKILLS

- **ACMV Design (Air Conditioning & Ventilation Systems)**
- **MEP Coordination & Site Supervision**
- **HVAC Load Calculations & System Design**
- **Technical Drawings Review & QA/QC**
- **Project Coordination & Construction Support**
- **ASHRAE & NFPA Standards Compliance**

EDUCATION & PROFESSIONAL QUALIFICATIONS

- Bachelor of Science in Mechanical Engineering - University of the Philippines – Diliman (2014)
- Registered Mechanical Engineer - License No. 0084309
- Member, Philippine Society of Mechanical Engineers

EXPERIENCE

Senior Mechanical Engineer | 2016 – Present

Meinhardt Philippines Inc.

- Lead HVAC/ACMV design from concept to detailed engineering.
- Perform load calculations, system sizing, and layout development.
- Conduct technical reviews and ensure compliance with standards.
- Coordinate with multidisciplinary teams for project execution.
- Support site inspections and ensure proper implementation.

Site MEPF Coordinator | 2014 – 2016

DMCI Project Developers, Inc. | Edinburgh, Scotland

- Coordinate construction drawings across all MEP trades.
- Monitor materials, subcontractors, and site progress.
- Manage manpower scheduling aligned with project timelines.
- Conduct inspections and ensure compliance with plans.

PROJECT EXPERIENCE

DMCI Project Developers, Inc.

- The Birchwood – Taguig City
 - Medium-rise residential development (5 buildings, ~16,900 sqm) with full amenity scope including clubhouse, pools, and landscaped areas.
 - Involved in MEPF construction coordination, plan review and implementation, subcontractor management, and materials monitoring.

Meinhardt Philippines Inc.

- New Doha International Airport – Passenger Terminal Expansion
 - Large-scale international airport expansion increasing capacity from 24M to 53M passengers annually (~537,259 sqm).
 - Involved in ACMV design support, ventilation systems coordination, and compliance with ASHRAE and NFPA standards across terminal expansion works.
- **Avida Towers Prime Taft – Pasay City**
 - High-rise residential development with multiple tower configuration.
 - Provided mechanical design support and HVAC system planning for residential units and common areas.
- **Solinea Central Amenity Clubhouse – Cebu City**
 - ~1,500 sqm central amenity facility including gym, function rooms, and recreational spaces.
 - Responsible for HVAC system design and coordination ensuring comfort and operational efficiency.

Hospitality & High-End Developments

- Admiral Hotel – Pasay City
 - 5-star boutique hotel redevelopment (126 rooms) including F&B outlets, gym, spa, function rooms, and rooftop deck.
 - Involved in HVAC system design coordination and MEP integration for hospitality operations and guest comfort systems.

Commercial & Corporate Developments

- 8753 Paseo de Roxas Commercial Building – Makati City
 - 26-storey office development with multiple parking levels and commercial facilities (~1,200 sqm site area).
 - Involved in HVAC system design coordination for commercial office environments.

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PROJECT EXPERIENCE

High-Rise Residential Developments

- Admiral Grandsuites – Pasay City
 - 43-storey mixed-use residential development (~28,152 sqm) with parking, commercial spaces, and residential units.
 - Provided ACMV system design support and coordination across multiple building functions.
- Anchor Grandsuites – Binondo, Manila
 - 63-storey residential tower with integrated amenities, parking levels, and rooftop facilities (~3,691 sqm).
 - Involved in HVAC system planning and coordination for high-rise residential infrastructure.
- Portico Tower Phase 2 – Pasig City
 - Multi-tower residential development with basement parking and amenity areas across a 3.4-hectare site.
 - Supported HVAC system design and coordination for residential and shared facilities.
- High Park Towers 1 & 2 – Quezon City
 - Residential condominium development with 35-storey towers and multiple basement parking levels (~10,632 sqm site area).
 - Responsible for ACMV design coordination and system integration.

Specialized Engineering Projects

- Solaire Metro North Project – Smoke Extraction Study
 - Mixed-use casino/hotel development focusing on atrium smoke extraction system (~220 sqm).
 - Applied prescriptive design methods based on NFPA and ASHRAE standards.

Commercial & Corporate Developments

- BDO Cebu Fuente Osmeña Building – Cebu City
 - 20-storey commercial building located in a prime urban landmark area.
 - Involved in HVAC system design coordination, supporting sustainable design strategies aligned with Green Mark certification standards.
- BDO Corporate Center Makati – Makati City
 - 56-storey headquarters development (~270m height) with multiple office towers, amenity spaces, and integrated facilities.
 - Provided HVAC design coordination for high-rise office systems and complex building integration.
- BDO Greenhills Missouri Project – San Juan City
 - Banking facility with basement parking, retail spaces, and office levels.
 - Supported mechanical system planning and HVAC coordination for commercial and banking operations.

Retail & Mixed-Use Developments

- Boracay Central Project – Boracay Island
 - Retail complex consisting of multiple 3-storey shophouse buildings in a high-tourism area.
 - Involved in MEP coordination and HVAC system planning for commercial retail environments.

Airports & Infrastructure

- Caticlan Airport Passenger Terminal Building – Aklan
 - Passenger terminal facility (~22,000 sqm) supporting full airport operations including check-in, baggage handling, and passenger flow areas.
 - Responsible for HVAC system design coordination ensuring efficiency, compliance, and passenger comfort.

Residential & Hospitality Developments

- Copeton Baysuites – Pasay City
 - High-end residential development consisting of three 16-storey towers in a prime location near major commercial and airport zones.
 - Involved in HVAC system design coordination ensuring efficiency and comfort for high-density residential use.
- Crown Residences & Crest Suites – Davao City
 - Premium residential and serviced apartment development within a large mixed-use community.
 - Provided ACMV design support and coordination for both residential and hospitality-style living environments.

Healthcare & Specialized Facilities

- Shinagawa Clinic – BGC
 - Advanced medical facility equipped with specialized technologies for eye care services.
 - Responsible for HVAC system design ensuring controlled environments suitable for clinical operations.

Rehabilitation & System Upgrades

- BDO Valero Tower – AC System Rehabilitation (31F & 34F)
 - Air handling unit ducting system redesign and chiller replacement works.
 - Involved in mechanical system upgrade coordination and implementation for improved performance and efficiency.