

ARLENE



MAGABO-HORNILLA

Civil & Sanitary Engineer | Plumbing & Fire Protection Specialist

About Me

Civil and Sanitary Engineer with strong expertise in plumbing, drainage, and fire protection system design, including water supply, waste systems, and sprinkler/fire suppression systems. Experienced in large-scale residential, commercial, and healthcare developments, with a solid background in hydraulic calculations, system layout, and site coordination.

KEY SKILLS

- **Plumbing & Sanitary System Design**
- **Fire Protection Systems (Sprinkler & Suppression)**
- **Hydraulic Calculations & System Layout**
- **Drainage, Water Supply & Waste Systems**
- **MEP Coordination & Site Inspection**
- **Technical Specifications & QA/QC**

EDUCATION & PROFESSIONAL QUALIFICATIONS

- Bachelor of Science in Civil Engineering – Cum Laude
- University of the Philippines, Los Baños (2012)
- Bachelor of Science in Environmental & Sanitary Engineering
- National University, Manila (2018)
- Registered Civil Engineer – License No. 124461
- Registered Sanitary Engineer (Top 2 Board Exam, 2018) – License No. 03335
- Member, Philippine Society of Sanitary Engineers (PSSE)
- Member, Philippine Institute of Civil Engineers (PICE)

EXPERIENCE

Assistant Department Head – Hydraulics Department | 2013 – Present *Meinhardt Philippines, Inc.*

- Lead plumbing and fire protection system design for multiple projects.
- Perform hydraulic calculations and system layouts.
- Develop design concepts and technical specifications.
- Conduct site inspections and ensure proper implementation.
- Coordinate with multidisciplinary teams for project execution.

INTERNATIONAL PROJECT EXPERIENCE

EMCS Caribbean Ltd. – Selected Projects

- La Casa Villa • Xanadu Project • The Hut • Morgans • Wass Residences • Jolly Harbour Marina • Orlov Residence (Plot 37) • Rock House • Villa M • Curtain Bluff Seagrape • Kirill Orlov Residence • Copp Villa • Sage Mountain • Sugar Ridge Phase 2 • Curtain Bluff Antigua
- **Vendome Mall – Lusail Entertainment City, Qatar**
 - Large-scale mixed-use development including retail, entertainment, hospitality, and commercial facilities.
 - Involved in plumbing, sanitary, and fire protection system design coordination for high-demand public infrastructure
- **SEEF 5-Star Hotel & Resort – Bahrain**
 - Luxury hospitality development including hotel, spa facilities, residences, and villas.
 - Responsible for plumbing and fire protection system design supporting hospitality operations and guest services.
- **Project Minato – Japan**
 - Data center facility requiring high-performance and reliable utility systems.
 - Provided sanitary and drainage system design aligned with technical and operational requirements.

PROJECT EXPERIENCE

Healthcare & Institutional

- **Baguio General Hospital & Medical Center – Baguio City**
 - Multi-building healthcare development including trauma center, brain center, and HLK facility (~10,000+ sqm combined).
 - Responsible for plumbing and fire protection system design, including water supply, drainage, and medical facility compliance requirements.

Commercial & Mixed-Use Developments

- **KidZania – Taguig City**
 - 4-storey multi-purpose commercial and entertainment facility (~17,000 sqm).
 - Involved in plumbing and sanitary system design for high-occupancy public spaces.

West Super Block – BGC

- Mixed-use development combining residential and office spaces (~12,582 sqm site area).
- Provided hydraulic design and system coordination for large-scale urban infrastructure.

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Industrial & Infrastructure

- **Stanley Block & Decker – Subic Bay**

- Industrial development including production, warehouse, and office facilities (~20,000 sqm site).
- Responsible for water supply, drainage, and sanitary system design coordination.

High-Rise Residential Developments

- **Vader 1 Project – Ayala Land**

- 48-storey residential tower with integrated amenities and retail components.
- Designed plumbing and sanitary systems for high-density residential infrastructure.

- **High Street South (HSS) – BGC**

- Large residential development (~49,000 sqm GFA) with extensive amenities.
- Provided full sanitary and plumbing system design supporting residential and mixed-use facilities.

High-Rise Residential & Mixed-Use Developments

- **Verve Residences Tower 2 – BGC**

- 33-storey residential tower with 5 basement levels (~3,165 sqm land area).
- Involved in plumbing and sanitary system design and coordination for high-rise residential infrastructure.

- **Northeast Triangle Project – BGC**

- Large-scale mixed-use residential development (~70,000 sqm CFA).
- Provided plumbing and drainage system design supporting multi-unit residential configurations.

Commercial & Mixed-Use Developments

- **Project Jade – ArthaLand Corporation**

- 22-storey mixed-use development with office, retail, and commercial facilities targeting LEED certification.
- Responsible for plumbing and sanitary system design aligned with sustainability standards.

- **One & Two Woodside – Megaworld**

- Twin tower office development (~60,000 sqm) with integrated retail and commercial spaces.
- Provided sanitary and plumbing system coordination for large-scale office and retail operations.

Resort & Hospitality Developments

- **Manila Bay Resort – Okada Group**

- Large-scale integrated resort development (45-hectare site) including multiple hotels, casino facilities, retail, and entertainment spaces.
- Involved in plumbing and fire protection system design coordination for complex, multi-zone hospitality infrastructure.

Urban Development & Landscape Integration

- **West Super Block Landscape Project – BGC**

- Mixed-use development landscape scope including retail and office areas.
- Supported irrigation and utility system coordination as part of overall site infrastructure.

- **World Commerce Place, BGC**

- Mixed-use development with 3 BPO towers (28–30 floors), basement and multi-level parking. Total CFA: 115,468 sqm.

- **Arcovia Palazzo, Pasig City**

- High-end residential project (128,665 sqm GFA) with 3 towers, including retail and F&B components.

- **Mireio Raffles Restaurant**

- Restaurant fit-out across 9th and 10th floors, approx. 600 sqm.

- **PSE Office Fit-Out, BGC**

- 6,400 sqm office relocation and fit-out across multiple floors, including unified trading floor.

- **BHS C1 Building Reconfiguration, BGC**

- Retail-to-F&B conversion project (5,781 sqm), including structural and layout reconfiguration.

- **BGC 5th Avenue Dormitory (Peer Review)**

- 12-storey residential development with 360 units, parking, retail support, and central atrium.

- **Benpres Redevelopment, Ortigas Center**

- Mixed-use development (HQ office + BPO tower) with shared podium and integrated parking system.

- **Filinvest Cainta Mall**

- 3-storey commercial mall (8,000 sqm GFA) with retail, F&B, parking, and indoor garden spaces.

- **CCF Socsargen Project, General Santos City**

- 2-storey mixed-use facility including coffee shop, classrooms, lounge areas, sanctuary, and parking.

- **West Gallery Place, BGC Taguig**

- 49-storey high-rise residential development with low-density units, private amenities, and parking.

- **Manila Alabang Temple Project (LDS)**

- Multi-structure development including 3-storey temple, accommodation center (13,000 sqft), parking for 70 cars + buses, and full MEP services.

- **Mactan T1 Airport Renovation, Cebu**

- Full terminal renovation (~50,000 sqm) to meet updated international aviation standards.

- **Arca South NAC Tower 2, Taguig**

- 11-storey commercial/office tower with 6 basement parking levels.

- **Portico Tower 3, Pasig City**

- High-rise residential project (42 floors) with 2 towers, townhouse component, and multi-level parking.

- **Taguig City Hall Development**

- 16-storey government building (46,393 sqm GFA) including basement parking, event spaces, and office floors.

- **Hotel & Commercial Building, General Santos City**

- 3-storey mixed-use building with hotel rooms, retail spaces, offices, restaurant/lounge, and penthouse suite.