

Wilfredo Rebosa BSc (MECHENG)

Sr. Fire Protection Engineer



Location

Quezon City, Metro Manila, Philippines

Experience

26 years

Qualifications/Accreditations

- BS in Mechanical Engineering, Technological Institute of the Philippines, [1993]
- Philippine Board Licensed Mechanical Engineer

Key technical skills

- Knowledgeable in: Pipe Flow Expert - Fluid Flow Calculation & Analysis Software, HASS – Hydraulic Analyzer of Sprinkler Systems, Elite Fire Software – Fire Protection Hydraulic Calculation and Analysis Software, Sigma Fire Software - Fire Protection Hydraulic Calculation and Analysis Software, Epanet – Hydraulic Calculation and Analysis Software, Grundfos Wincaps – Plumbing Pump Sizing Calculation Software, Siemens Nitrogen Flow Calculation Software, Ansul Inergen Flow Calculation Software, Ansul CO2 Flow Calculation Software, Ansul Low Pressure CO2 Calculation Software (Inerting and Suppression), Kidde FM200 Flow Calculation Software, Ansul FM200 Flow Calculation Software, HAP sCarrier E20-II, AutoCAD, Revit MEPF, Bentley AutoPipe Connect V11.4. and Caesar II 12 - Piping Stress Analysis Software.

Memberships

- Member - Society of Fire Protection Engineers (SFPE)
- Member - Philippine Society of Mechanical Engineers

Relevant experience summary

Wilfredo has 26 years' work experience in the fields of Fire Protection and Mechanical Systems. He is knowledgeable in design, cost estimate, procurement, project implementation, testing, and commissioning of fire protection systems for refineries, coal-fired and hydroelectric power plants, oil depots, oil and gas off-shore platform, passenger aircraft hangers, low to high-rise commercial buildings, and industrial and residential structures. He also has design and project implementation experience in MVAC systems, LPG systems, compressed air, process hydraulics, process steam, refinery process equipment water cooling system, and oil and gas piping. He is familiar with NFPA, IFC, BS, FM Global Standards, Saudi Aramco Engineering Standards (SAES), Fire Code of the Philippines RA9514, Petron Refinery TS-8 Fire Standard, Total Depots Fire Fighting, Shell Fire Design Engineering Practices, ASHRAE, ASTM/ANSI, API, ICC standards, UPC, National Standard Plumbing Code, and The Institute of Plumbing.

Project Experience – [Fire Protection]

Food Manufacturing Company

Fire Protection Design & Consultancy | Food Manufacturing | Laguna Philippines | Project Value | Date [Jan. 2023] – [Present]

The project is a new food manufacturing plant with a total lot area of 118,132 sqm. Wilfredo is responsible for designing the said project's fire protection systems.

Moog Philippines

Fire Protection Design and Project Management | Moog Corp. | Baguio City, Philippines | Project Value | Date [Oct. 2022] – [Dec 2022]

The project is for the upgrade of the outdoor fire main system from underground to aboveground. Wilfredo is responsible for the design and technical support for the implementation of the said project.

Palayan Binary Power Plant

**Fire Protection Design & Consultancy |
First Balfour | Sorsogon City, Philippines |
Project Value | Date [Jun. 2021] – [Sept. 2022]**

The project is for the fire protection of the entire binary power plant. Wilfredo is responsible for the design of the fire protection systems of the said project.

Qatar Petroleum Refinery

**Fire Protection Design & Consultancy |
Qatar Petroleum Refinery | Doha Qatar |
Project Value | Date [Dec. 2021] – [March 2022]**

The project is for the fire protection for the new Hazardous Waste Storage Facility of Qatar Refinery. Wilfredo is responsible for the design of the external fire protection systems of the said project. Outdoor Fire Hydrant system shall be in accordance with Qatar Civil Defence, Shell DEP and NFPA requirements.

Luxury Casino and Resort

**Fire Protection Design & Consultancy |
Casino & Resort | New Clark City, Philippines |
Project Value | Date [Jan. 2020] – [March 2021]**

The project is a 450-hectare land that will have a first-class resort experience and hospitality, state-of-the-art golfing and a top destination in the region. Wilfredo is responsible for the design of fire protection systems, and kitchen LPG supply of the said project.

Awesome Hotel Resort

**Fire Protection Design & Consultancy |
Awesome Hotel | San Juan, La Union, Philippines |
Php 600,000,000 | Date [March 2017] – [Sept. 2019]**

The Awesome Hotel Resort Project is a five-star eight (8)-storey building situated at the surfing capital of the Philippines. Wilfredo is responsible for the design and project monitoring of the firefighting systems of the said project.

36 Waverly Commercial Building

**Fire Protection Design & Consultancy |
VM Arch Design | New York, United States of
America | Project Value | Date [Aug. 2019] – [Sept. 2019]**

The project is a four (4)-storey commercial building with one (1) basement floor. Wilfredo is responsible for the review and assessment of the existing sprinkler system and redesign to conform to New York City building code and NFPA standards requirements.

Alphaland Corporate Tower

**Fire Protection Design and Project Management |
PY+R | Makati, Metro Manila, Philippines |
Project Value | Date [Jan. 2019] – [March 2019]**

The project is a construction of a main kitchen for the building located at the second floor with an

approximate floor area of 1500sq.m. Wilfredo is responsible for the design, project supervision and implementation of the sprinkler system of the said project in accordance with local Fire Code RA 9514, and NFPA 13 and 14 standard requirements.

Richmond Plaza Building

**Fire Protection Design & Consultancy |
ABSHA Builders Inc. | San Pedro, Laguna,
Philippines | Php 800,000,000 | Date [Feb. 2018] –
[June 2018]**

The project is a 12-storey BPO Building with one (1) basement level. Wilfredo is responsible for the design of the fire protection systems of the said project.

Alphaland Corporate Tower

**Fire Protection Design and Project Management |
PY+R | Makati, Metro Manila, Philippines |
Project Value | Date [Oct. 2018] – [Dec. 2018]**

The project is a renovation of 26th and 27th floor office for the new tenant. Wilfredo is responsible for the design, project supervision and implementation of the sprinkler system of the said project in accordance with local Fire Code RA 9514 and NFPA 13 and 14 standards.

250 West 26th Commercial Building

**Fire Protection Design & Consultancy |
VM Arch Design | New York, United States of
America | Project Value | Date [July 2017] – [Sept. 2017]**

The project is an eight (8)-storey commercial building with one (1) basement floor. Wilfredo is responsible for the review and assessment of the existing sprinkler system and redesign to conform to New York City fire code and NFPA standards requirement.

Edward Keller Phils. Inc. (EKPI)

**Fire Protection Systems Consultancy |
GHD | Laguna, Philippines |
Project Value | Date [April 2017] – [May 2017]**

The project calls for the assessment of the existing fire protection system that includes fire pump, fire hydrants, fire hose, and sprinkler systems. The work includes verification and testing of fire pumps and hydrants to assess if the systems comply with the requirements of NFPA standards. Wilfredo is responsible for the said tasks, preparation of systems analyses and report of the said project.

MOI KAP-01

**Fire Protection Design & Consultancy |
Saudi Oger | Riyadh City, Kingdom of Saudi Arabia
| Project Value | Date [March 2016] – [April 2016]**

Responsible for design of Fire Protection systems (security graded design for Detention Buildings) for Ministry of Interior's Correctional Facilities.

Responsible for the preparation of cost estimate and quantity take-off for Fire Protection Works and responsible for checking and supervising the production of fire protection drawings and hydraulic calculations submittals.

King Abdulaziz Center for World Culture (KACWC)

Fire Protection Design & Consultancy | Saudi Oger | Dahrhan, Kingdom of Saudi Arabia | Project Value | Date [July 2011] – [Oct. 2016]

The project is an 18-storey mixed used commercial building with five (5) basement levels. Wilfredo is responsible for the preparation of cost estimate and quantity take-off for fire protection works and responsible for checking and supervising the production of fire protection drawings from conceptual to IFC stage.

King Abdullah Financial District Monorail Depot

Fire Protection Design & Consultancy | Saudi Oger | Kingdom of Saudi Arabia | Project Value | Date [July 2011] – [Oct. 2016]

The project is a construction of a monorail depot. Wilfredo is responsible for the design of sprinkler and FM200 systems, and technical support to project team.

STEAG Mindanao Power Plant

Fire Protection Design Consultancy | Steag State Power, Inc. | Misamis Oriental, Mindanao, Philippines | Php 40,000,000 | Date [Feb. 2007] – [Nov. 2007]

The project is for the entire power plant coal conveyors and transfer towers fire protection systems. Wilfredo is responsible for the design and technical support for implementation of Deluge Water Spray and Fire Hose Systems for the coal conveyors and transfer towers.

PetroFCC Petron Refinery

Fire Protection Design & Consultancy | Petron Corporation | Limay, Bataan, Philippines | Php 60,000,000 | Date [June 2008] – [July 2008]

The project is for the fire protection of the million-barrel crude oil tank. Wilfredo is responsible for the design of Foam Deluge top injection and tank shell cooling Deluge Water spray systems for the said project.

Shangri-La Boracay Resort

Fire Protection Design & Consultancy | Shangri-La | Caticlan, Aklan, Philippines | Project Value | Date [March 2007] – [Aug. 2007]

The project is the Shangri-La resort composed of hotel buildings and resort villas. Wilfredo is responsible for the design and project monitoring of the fire protection systems of the said project.

Saint Francis Tower Shangri-La

Fire Protection Design & Consultancy | Shangri-La | Mandaluyong, Philippines | Project Value | Date [March 2007] – [Aug. 2007]

The project is two (2) 60-storey buildings which are situated at the back of Shangri-La Plaza, Edsa. Wilfredo is responsible for the design and project monitoring of the fire protection systems of the said project.

Great Ormond Street Hospital

Fire Protection Design & Consultancy | WSP UK | London, United Kingdom | Project Value | Date [March 2007] – [April 2007]

The project is a construction of an eight (8)-storey hospital building. Wilfredo is responsible for the fire protection systems design of the said project.

PetroFCC Petron Refinery

Fire Protection Design & Project Management | Petron Corporation | Limay, Bataan, Philippines | Php 18,000,000 | Date [July 2006] – [Oct. 2006]

The project is for the clean agent fire protection for electrical rooms. Wilfredo is responsible for the design of Inergen fire suppression, project implementation and management of the said project.

PetroFCC Petron Refinery

Fire Protection Design & Consultancy | Petron Corporation | Limay, Bataan, Philippines | Project Value | Date [April 2006] – [Dec. 2006]

The project is for the review and assessment of the existing fire protection of the entire refinery. Wilfredo is responsible for the review, assessment and making the necessary recommendations, and rectification of the existing fire protection systems for the plant such as fire protection systems of the whole tank farm, site-wide fire hydrant system, fire pump stations, process equipment protection, and piping networks of the said project.

Pandacan Oil & Gas Depot

Fire Protection Design & Consultancy | Petron Corporation | Limay, Bataan, Philippines | Project Value | Date [June 2006] – [Oct. 2006]

The project is for the review and assessment of the existing fire protection of the entire depot. Wilfredo is responsible for the review, assessment and making the necessary recommendations, and rectification of the existing fire protection systems for the plant such as fire protection systems of whole tank farm, site-wide fire hydrant system, fire pump stations, process equipment protection, and piping networks of the said project.

Hyatt Hotel

Fire Protection Design & Consultancy | Hyatt Hotels Corp. | Manila, Metro Manila, Philippines | Project Value | Date [Sept. 2006] – [Oct. 2006]

The project is a 13-storey hotel building with two (2) basement levels. Wilfredo is responsible for the review and rectification of the design of the existing sprinkler fire protection systems to comply with NFPA codes and standards of the said project.

Shell Malampaya Off-Shore Platform

Fire Protection Design & Consultancy | Shell Corp. | Palawan, Philippines | Project Value | Date [March 2006] – [March 2006]

The project is a helipad foam and equipment motor water mist fire protection system evaluation and upgrade. Wilfredo is responsible for the review and rectification of the design of the existing fire protection systems to comply with NFPA codes and standards of the said project.

Shell Malampaya Off-Shore Platform

Fire Protection Design & Consultancy | Shell Corp. | Palawan, Philippines | Project Value | Date [March 2006] – [March 2006]

The project is a kitchen Ansul fire suppression system assessment. Wilfredo is responsible for the review, testing, and evaluation of the said system to comply with NFPA codes and standards of the said project.

National Transmission Corporation

Fire Protection Design & Project Implementation | National Transmission Corp. | Compostela, Cebu, Philippines | Project Value | Date [June 2006] – [Oct. 2006]

The project is for the fire protection of outdoor (3-150MW and 2-50MW) transformers. Wilfredo is responsible for the design and technical support for the implementation of Deluge Water Spray and Fire Hydrant systems in accordance with NFPA codes and standards of the said project.

Proctor & Gamble Philippines

Fire Protection Design and Project Management | P&G Philippines | Cabuyao, Laguna, Philippines | Project Value | Date [Feb. 2005] – [April 2005]

The project is for the fire protection of substation electrical room. Wilfredo is responsible for the design and technical support for the implementation of Ansul CO2 Total Flooding Fire Suppression system in accordance with NFPA codes and standards of the said project.

Nestle Philippines

Fire Protection Design and Project Management |

Nestle Philippines Corp. | Cagayan De Oro, Philippines | Project Value | Date [June 2004] – [Oct. 2004]

The project is for the fire protection of substation electrical rooms. Wilfredo is responsible for the design and implementation of Ansul CO2 Total Flooding Fire Suppression system in accordance with NFPA codes and standards of the said project.

Mirant Philippines

Fire Protection Design and Project Management | Mirant Philippines | Pagbilao, Quezon, Philippines | Project Value | Date [April 2005] – [May 2005]

The project is for the fire protection of Clamp Shell Ship Unloader A & B. Wilfredo is responsible for the design and technical support for the implementation of FM200 Fire Suppression system in accordance with NFPA codes and standards of the said project.

North Luzon Tollways

Fire Protection Design and Project Management | North Expressway Philippines | Bulacan, Philippines | Project Value | Date [March 2005] – [Dec. 2005]

The project is for the fire protection of telecoms and server rooms for all toll plazas. Wilfredo is responsible for the design and technical support for the implementation of FM200 Fire Suppression system in accordance with NFPA codes and standards of the said project.

Accenture Gateway

Fire Protection Design and Project Management | Accenture Philippines | Quezon City, Philippines | Project Value | Date [April 2005] – [May 2005]

The project is for the fire protection for the server room. Wilfredo is responsible for the design and technical support for the implementation of Ansul Inergen Fire Suppression system in accordance with NFPA codes and standards of the said project.

Accenture Cybergate

Fire Protection Design and Project Management | Accenture Philippines | Mandaluyong, Philippines | Project Value | Date [April 2005] – [May 2005]

The project is for the fire protection for the server room. Wilfredo is responsible for the design and technical support for the implementation of Ansul Inergen Fire Suppression system in accordance with NFPA codes and standards of the said project.

Republic Cement

Fire Protection Design and Project Management | La Farge | Bulacan, Philippines | Project Value | Date [June 2005] – [Aug. 2005]

The project is for the fire protection of Coal Mill, Silos and Bag Filters. Wilfredo is responsible for the design and technical support for the implementation of 10Ton Low Pressure CO2 inerting system in accordance with NFPA codes and standards of the said project.

Fortune Cement

Fire Protection Design and Project Management | La Farge | Batangas, Philippines | Project Value | Date [June 2005] – [Dec. 2005]

The project is for the fire protection of Coal Mill, Silos and Bag Filters. Wilfredo is responsible for the design and technical support for the implementation of 10Ton Low Pressure CO2 inerting system in accordance with NFPA codes and standards of the said project.

Iligan Cement

Fire Protection Design and Project Management | La Farge | Iligan City, Philippines | Project Value | Date [June 2005] – [Dec. 2005]

The project is for the fire protection of Coal Mill, Silos and Bag Filters. Wilfredo is responsible for the design and technical support for the implementation of 14Ton Low Pressure CO2 inerting system in accordance with NFPA codes and standards of the said project.

FR Cement

Fire Protection Design and Project Management | FR Cement | Antipolo, Philippines | Project Value | Date [Sept. 2005] – [Nov. 2005]

The project is for the fire protection of Coal Mill, Silos and Bag Filters. Wilfredo is responsible for the design and technical support for the implementation of 10Ton Low Pressure CO2 inerting system in accordance with NFPA codes and standards of the said project.

Wyeth Philippines

Fire Protection Design and Project Management | Wyeth Corp. | Laguna, Philippines | Project Value | Date [Aug. 2005] – [Dec. 2005]

The project is for the fire protection of finished goods warehouse. Wilfredo is responsible for the design and technical support for the implementation of In-Rack sprinkler system in accordance with FM global insurance, and NFPA codes and standards of the said project.

ABS-CBN

Fire Protection Design and Project Management | ABS CBN Broadcasting Corp. | Quezon City, Philippines | Project Value | Date [Oct. 2005] – [Dec. 2005]

The project is for the fire protection of film storage warehouse. Wilfredo is responsible for the design and technical support for the implementation of Ansul Inergen Fire suppression system in accordance with NFPA codes and standards of the said project.

National Transmission Corporation

Fire Protection Design & Project Implementation | National Transmission Corp. | Cabanatuan City, Philippines | Project Value | Date [Feb. 2004] – [April 2004]

The project is for the fire protection of outdoor (1-150MW and 1-50MW) transformers. Wilfredo is responsible for the design and technical support for the implementation of Deluge Water Spray and Fire Hydrant systems in accordance with NFPA codes and standards of the said project.

Proctor & Gamble Philippines

Fire Protection Design and Project Management | P&G Philippines | Cabuyao, Laguna, Philippines | Project Value | Date [June 2004] – [Oct. 2004]

The project is for the fire protection of chemical storage warehouse. Wilfredo is responsible for the design and implementation of Deluge Foam Water Spray system in accordance with NFPA codes and standards of the said project.

Nestle Philippines

Fire Protection Design and Project Management | Nestle Philippines | Laguna City, Philippines | Project Value | Date [Sept. 2004] – [Oct. 2004]

The project is for the fire protection of electrical control room. Wilfredo is responsible for the design and implementation of Ansul CO2 Total Flooding Fire Suppression system in accordance with NFPA codes and standards of the said project.

California Manufacturing Corporation

Fire Protection Design and Project Management | California Manufacturing Corp. | Cavite City, Philippines | Project Value | Date [Oct. 2004] – [Nov. 2004]

The project is for the fire protection of warehouse. Wilfredo is responsible for the design and implementation of Automatic Sprinkler system in accordance with NFPA codes and standards of the said project.

Light Rail Transit (LRT-2 Stations)

Fire Protection Design and Project Management | HANJIN | Quezon City, Philippines | Php 12,000,000 | Date [Jan. 2003] – [March 2004]

The project is for the fire protection of electrical rooms. Wilfredo is responsible for the design and implementation of FM200 fire Suppression system in accordance with NFPA codes and standards of the said project.

Del Monte Philippines

Fire Protection Design and Project Management |

Del Monte Philippines Corp. | Cagayan De Oro City, Philippines | Project Value | Date [April. 2003] – [May 2003]

The project is for the fire protection of electrical room. Wilfredo is responsible for the design and implementation of FE13 fire Suppression system in accordance with NFPA codes and standards of the said project.

Citibank Philippines

Fire Protection Design and Project Management | Citibank Philippines | Quezon City, Philippines | Project Value | Date [June 2003] – [June 2003]

The project is for the fire protection of kitchen area. Wilfredo is responsible for the design and implementation of Ansul R102 Wet Chemical fire Suppression system in accordance with NFPA codes and standards of the said project.

Lufthansa Philippines

Fire Protection Design and Project Management | Lufthansa | Paranaque City, Philippines | Project Value | Date [Feb. 2003] – [April 2003]

The project is for the fire protection of kitchen area. Wilfredo is responsible for the design and implementation of Ansul R102 Wet Chem. fire Suppression system in accordance with NFPA codes and standards of the said project.

Analog Devices

Fire Protection Design and Project Management | Analog Devices Phils. | Cavite City, Philippines | Project Value | Date [April 2002] – [April 2002]

The project is for the fire protection of kitchen area. Wilfredo is responsible for the design and implementation of Ansul R102 Wet Chemical fire Suppression system in accordance with NFPA codes and standards of the said project.

Intel Philippines

Fire Protection Design and Project Management | Intel Corp. | Makati City, Philippines | Project Value | Date [Feb. 2001] – [March 2001]

The project is for the fire protection of kitchen area. Wilfredo is responsible for the design and implementation of Ansul R102 Wet Chemical fire Suppression system in accordance with NFPA codes and standards of the said project.

Lexmark Philippines

Fire Protection Design and Project Management | Lexmark Phils. | Cebu City, Philippines | Project Value | Date [Jan. 2001] – [Feb. 2001]

The project is for the fire protection of server room. Wilfredo is responsible for the design and implementation of FM200 fire Suppression system in

accordance with NFPA codes and standards of the said project.

Globe Telecom

Fire Protection Design and Project Management | Globe Telecom Corp. | Batangas City, Philippines | Project Value | Date [March. 2001] – [May 2001]

The project is for the fire protection of server room. Wilfredo is responsible for the design and implementation of FM200 fire Suppression system in accordance with NFPA codes and standards of the said project.

Globe Telecom

Fire Protection Design and Project Management | Globe Telecom Corp. | Mandaluyong City, Philippines | Project Value | Date [March. 2001] – [May 2001]

The project is for the fire protection of server room. Wilfredo is responsible for the design and implementation of Ansul Inergen fire Suppression system in accordance with NFPA codes and standards of the said project.

Amkor Anam

Fire Protection Design and Project Management | Amkor Anam | Paranaque City, Philippines | Project Value | Date [April 2001] – [May 2001]

The project is for the fire protection of office building. Wilfredo is responsible for the design and implementation of automatic fire sprinkler system in accordance with NFPA codes and standards of the said project.

Timex Philippines

Fire Protection Design and Project Management | Timex Philippines | Cebu City, Philippines | Project Value | Date [March 2001] – [April 2001]

The project is for the fire protection of Coil Winding room. Wilfredo is responsible for the design and implementation of automatic pre-action fire sprinkler system in accordance with NFPA codes and standards of the said project.

Q-Plaza

Fire Protection Design and Project Management | Q-Plaza Corp. | Quezon City, Philippines | Project Value | Date [April. 1999] – [Sept. 1999]

The project is for the fire protection of kitchen area. Wilfredo is responsible for the design and implementation of Ansul R102 Wet Chemical fire Suppression system in accordance with NFPA codes and standards of the said project.

Moog Philippines

Fire Protection Design and Project Management | Moog Corp. | Baguio City, Philippines | Project Value | Date [June 1998] – [June 1998]

The project is for the fire protection of Aircraft Drill Machine. Wilfredo is responsible for the design and implementation of Kidde FM200 fire suppression system in accordance with NFPA codes and standards of the said project.

Mauban Power Plant

Fire Protection Design and Project Management | Mauban Power | Quezon, Philippines | Project Value | Date [July 1997] – [Dec. 1999]

The project is for the fire protection of the entire power plant. Wilfredo is responsible for the design and hydraulic calculations for the fire protection systems of the plant such as turbines preaction water spray protection, site-wide fire hydrant system, fire pump station, deluge water spray systems for the outdoor transformers, and sprinkler protection for the miscellaneous buildings of the said project.

Project Experience – [Mechanical Systems]

Food Manufacturing Company

Mechanical Design & Consultancy | Food Manufacturing | Laguna Philippines | Project Value | Date [Jan. 2022] – [Present]

The project is a new food manufacturing plant with a total lot area of 118,132 sqm. Wilfredo is responsible for the design of the LPG, Compressed Air, and Steam systems of the production process equipment, laundry, and kitchen equipment.

Luxury Casino and Resort

Mechanical Design & Consultancy | Casino & Resort | New Clark City, Philippines | Project Value | Date [Jan. 2020] – [March 2021]

The project is a 450-hectare land that will have first-class resort experience and hospitality, state-of-the-art golfing and a top destination in the region. Wilfredo is responsible for the design of kitchens LPG system of the said project.

City of Dreams

Mechanical Design & Consultancy | Casino & Resort | Paranaque City, Philippines | Project Value | Date [March 2020]

The project is an LPG system for Kitchens. Wilfredo is responsible for the design of the kitchens' LPG system of the said project.

Alphaland Corporate Tower

Mechanical Design and Project Management | PY+R | Makati, Metro Manila, Philippines | Project Value | Date [Jan. 2019] – [March 2019]

The project is the construction of a main kitchen for the building with an approximate floor area of 1500sq.m. Wilfredo is responsible for the design, project supervision, and implementation of the Main Kitchen Air conditioning and Ventilation Systems of the said project in accordance with local and ASHRAE standards.

Alphaland Corporate Tower

Mechanical Design and Project Management | PY+R | Makati, Metro Manila, Philippines | Project Value | Date [Oct. 2018] – [Dec. 2018]

The project is the renovation of the 26th and 27th-floor offices for a new tenant. Wilfredo is responsible for the design, project supervision and implementation of the VRF air conditioning and ventilation systems of the said project in accordance with local and ASHREA standards.

Richmond Plaza Building

Mechanical Design & Consultancy | ABSHA Builders Inc. | San Pedro, Laguna, Philippines | Php 800,000,000 | Date [Feb. 2018] – [June 2018]

The project is a 12-storey BPO Building with one (1) basement level. Wilfredo is responsible for the design of the Air conditioning and Ventilation, and generator set fuel supply system of the said project.

Takasusshi Camp

Mechanical Design & Consultancy | Saudi Oger | Kingdom of Saudi Arabia | Project Cost | Date [Feb. 2016]

The project is an LPG system for Kitchens. Wilfredo is responsible for the design of the kitchens' LPG system of the said project.

Petron Refinery

Mechanical Design & Consultancy | Nalco Philippines | Bataan Philippines | Project Cost | Date [Dec. 2015]

The project is a front-end engineering design for the whole refinery process equipment cooling system. Wilfredo is responsible for the design, hydraulic modeling, analysis, and design presentation to the client.

CB Barangay Enterprises

Mechanical Design & Consultancy | CBBE | Cubao, Quezon City | Project Cost | Date [Oct. 2013]

The project is a Fuel Dispensing Station for motor vehicles. Wilfredo is responsible for the design and building permit application of the said project.

King Abdullah University of Science and Technology (KAUST)

Mechanical Design & Consultancy | Saudi Oger | Kingdom of Saudi Arabia | Project Cost | Date [May 2009]

The project is an LPG system for Kitchens. Wilfredo is responsible for the design of the kitchens' LPG system of the said project.

Shell Refinery

Mechanical Design & Consultancy | CPD Engineering | Batangas Philippines | Project Cost | Date [Jan. 2009]

The project is a new piping design for the SRFO, RFO, LGO, VFCR, and KERO fuel tanks. Wilfredo is responsible for the piping design of the said project.

Nikon Industrial Plant

Mechanical Design & Consultancy | Nikon | Valenzuela Philippines | Project Cost | Date [Sept. 1997]

The project is a compressed air system for the production line equipment. Wilfredo is responsible for the design and implementation of the said project.

Nikon Industrial Plant

Mechanical Design & Consultancy | Nikon | Valenzuela Philippines | Project Cost | Date [Aug. 1997]

The project is a flue gas chimney/stack for cast moulding machines. Wilfredo is responsible for the design and implementation of the said project.

Nikon Industrial Plant

Mechanical Design & Consultancy | Nikon | Valenzuela Philippines | Project Cost | Date [Feb. 1997]

The project is the production plastic moulding equipment cooling system. Wilfredo is responsible for the design, hydraulic calculation, and analysis of the said project.

Imarflex Industrial Plant

Mechanical Design & Consultancy | Sekai | Pasig City Philippines | Project Cost | Date [April 1994]

The project is a tool and die design for the new products. Wilfredo is responsible for the design and project implementation of the said project.

Career History:

[2020] - Present	GHD PTY LTD, [Sr. Fire Protection Engineer]
[2017] - [2019]	Wisdom Engineering Solutions, [Engineering Manager & President]
[2009] - [2017]	OGER Philippines, [Sr. Fire Protection & Plumbing Design Engineer]
[2008] - [2008]	One Zone Asia (Philippines) Inc. [Sr. Fire Protection Design Engineer]
[2007] - [2008]	Chittick Fire & Security Corporation, [Sr. Fire Protection Engineer]
[2007] - [2007]	WSP Asia (Philippines), Inc., [Sr. Fire Protection Engineer]
[2003] - [2007]	Chittick Fire & Security Corporation [Sr. Fire Protection Engineer]
[2002] - [2003]	Coolaire Consolidated, Inc. [Sr. Fire Protection Engineer]
[1999] - [2002]	Siemens Building Technologies, Inc., [Design & Estimate Engineer 2]
[1997] - [1999]	Master Automated Systems, Inc., [Fire Protection Project Engineer]
[1996] - [1997]	Nikon Industrial Corporation, [Plant Design Engineer]
[1994] - [1995]	Sekai Electric Manufacturing Corporation, [Research and Development Engineer]

Trainings & Certificates:

- 1.) **Bentley AutoPipe 11.4 & Caesar II 12: Piping Stress Analysis Course**
Place : Online Course
Date : May 16-18, 2023
- 2.) **SFPE: Suppression Fire Protection Systems for Storage Occupancies**
Place : Online Webinar
Date : March 7, 2022
- 3.) **University of Maryland The Effect of Fires on People, Property and the Environment**
Place : Online Course
Date : March 2, 2022
- 4.) **NFPA Certified Fire Plan Examiner: Site Plan Review**
Place : Online Course
Date : June 20-21, 2021

- 5.) **NFPA Certified Fire Plan Examiner:
Building Plan Review**
Place : Online Course
Date : June 12-17, 2021
- 6.) **NFPA13, 2019E: Introduction
and Occupancy Hazard Classifications**
Place : Online Course
Date : May 24-30, 2021
- 7.) **Construction Safety and Health Training**
Place : Sulas Consultancy Services
Date : Oct. 10-20, 2017
- 8.) **Autodesk Revit MEPF 2017**
Place : Microcad Technologies
Date : Feb. 1-31, 2017
- 9.) **Helicopter Safety & Emergency
Underwater Escape**
Place : IDESS Subic, Philippines
Date : July 6, 2006
- 10.) **Ansul Large Mining Vehicles
Fire Suppression Systems Design Training**
Place : 1 Eyre St. Rivervale, Belmont, Perth,
Australia
Date : March 18–22, 2006
- 11.) **Ansul Preferred Low Pressure
CO2 Systems Design Training**
Place : Marriot Hotel, Kuala Lumpur, Malaysia
Date : April 29 – May 1, 2004
- 12.) **Ansul Foam Systems Design Training**
Place : Marriot Hotel, Kuala
Lumpur, Malaysia
Date : April 27–28, 2004
- 13.) **Contracts Administration Seminar**
Place : Makati, Philippines
Date : Feb. 3, 10, & 24, 2001
- 14.) **Orientation Training on ISO Awareness**
Place : Makati, Philippines
Date : May 17, 2000
- 15.) **Computer - Aided Design of Heating,
Ventilating & Air Conditioning Systems**
Place : Crescent Technologies Institutes,
Manila City, Philippines
Date : Sept. 6 - Oct. 4, 1997
- 16.) **Advanced Computer Aided Design & Drafting
Course (Autocad Rel. 12)**
Place : CIM Technologies, Makati City,
Philippines
Date : Jan 15-Mar 19, 1995
- 17.) **Computer-Aided Design Drafting & Color
Rendering (Autocad Rel. 12)**
Place : Microcad Technologies, Cubao, Quezon
City, Philippines
Date : Aug 1-31, 1994
- 18.) **Pneumatic & Robotech Seminar-Festo**
Place : Quezon City, Philippines
Date : August 1992