INFINITY
MEP + engineering
خبرة عالمية في الهندسة

HEALTHCARE
PRE-QUALIFICATIONS

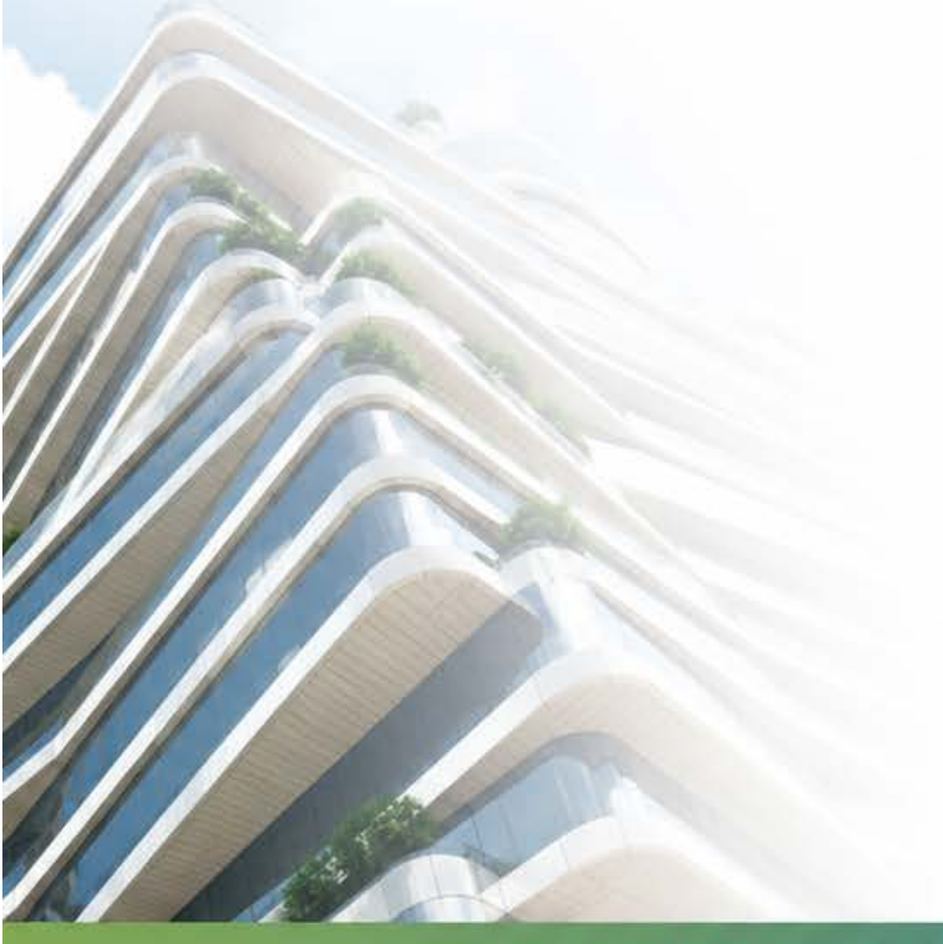
BRINGING **PASSION** TO ENGINEERING.

INFINITY MEP+Engineering | DAMAC BUSINESS TOWER, OFFICE 1007, BUSINESS BAY
DUBAI, U.A.E. | +971 (04) 552 1953 | WWW.INFINITYMEP.COM

WHY **INFINITY?**

BRINGING **PASSION** TO ENGINEERING.

Delivering engineering excellence through international expertise, local knowledge and collaborative partnerships.



WHY CLIENTS **CHOOSE US**

INTERNATIONAL EXPERTISE

Extensive engineering experience across residential, commercial, hospitality, healthcare, industrial and mixed-use developments in the Middle East and North America.

ESTABLISHED PRESENCE IN DUBAI

Successfully delivering engineering projects across the UAE for over 6 years with comprehensive knowledge of local authorities, regulations and approval processes.

COLLABORATIVE DESIGN APPROACH

Working as one integrated team with developers, architects and contractors from concept design through construction to deliver coordinated, practical and buildable solutions.

COMPLETE MULTIDISCIPLINARY ENGINEERING

Mechanical • Electrical • Plumbing • ELV & Security • Fire & Life Safety • Medical Gases • Acoustics • Commissioning • BIM Coordination.

EXTENDED NETWORK OF SPECIALIST PARTNERS

Through our trusted network of architects and specialist consultants, Infinity can support projects requiring a full Lead Design Consultant (LDC) scope, providing clients with a single, coordinated design team from concept through delivery.

QUALITY YOU CAN TRUST

Every project is delivered using robust Quality Assurance and Quality Control procedures, ensuring technically sound, coordinated and efficient engineering solutions.

INTERNATIONAL EXPERIENCE • LOCAL KNOWLEDGE • COLLABORATIVE DELIVERY

100+ Projects

100+ Happy Clients

Global Experience

150+
Years of Team Experience

Local Presence

OFFERING EVERYTHING YOU NEED.

/infinitymeps @infinitymeps infinitymep.com

Infinity MEP+ Engineering, brings a passion to engineering, ensuring every client receives an exceptional, collaborative & communicative experience. By combining our passion with our team's global experience, Infinity listens, adapts, and responds to the needs of our clients across a host of engineering disciplines.

Whether data centers, multi-family, mixed-use, healthcare, higher education, hospitality, or industrial projects, Infinity ensures our clients' success by providing the right team of engineers for every project we work on. With collaborative & experienced engineers across mechanical, electrical, plumbing, structural, technology, fire protection, and commissioning, Infinity brings the right team to every task for every need.

- MECHANICAL ENGINEERING
- ELECTRICAL ENGINEERING
- PLUMBING ENGINEERING
- STRUCTURAL ENGINEERING
- TECHNOLOGY DESIGN
  MEDICAL GASES
- SITE SUPERVISION
- FIRE & LIFE SAFETY
- ACOUSTIC DESIGN
- LEED/ WELL DESIGN
- CIVIL ENGINEERING

Every structure we design begins with quality.

OUR METHODOLOGY

Building on a foundation valuing responsiveness, experience, innovation, and attention to detail – our methodology is a holistic one which encompasses all aspects of a job. From initial scope of work to regional codes & guidelines to evolving needs of clients, we practice diligence in decision-making throughout every design phase.

BRINGING INFORMATION TO LIFE

Understanding the details of a project within the context of the client's vision is how we deliver success. Such perception begins with conversation involving key team members and stake holders to discern owner requirements, functions, regional codes and specs, operational requirements, and so much more. We use these conversations to ensure our work reflects the core values of our clients while delivering a structure which delivers a joyful and functional experience for its occupants.

COMMUNICATION AS A PRACTICE

Communicating is the load-bearing practice which holds our projects together and steers them to successful completion for our clients. Whether within our team or with stakeholders, owners, architects and other engineering firms – we know clear vision begins with open dialogue. From the first step when our senior team members hold a feasibility review of collected data and documents, through the project scoping process and initial queries, we communicate as we move our clients forward on the path to success.

QUALITY ASSURANCE / QUALITY CONTROL

QUALITY ASSURANCE

Infinity MEP+ meets and exceeds established quality assurance standards by being fully communicative and responsive throughout all stages of a project. Across the full project spectrum from design through construction, Infinity MEP+S applies a rigorous, robust, and consistent firm-wide / client-centric methodology for every project, every time.

QUALITY CONTROL

Employing this methodology ensures that every task - from design to engineering, from mechanical engineering to fire protection, and from punch walks to building commissioning – is met with the same rigorous adherence to best practices, standards, and optimization for the end users who will work, live, and call our designed structures home.

BRINGING IT ALL TOGETHER

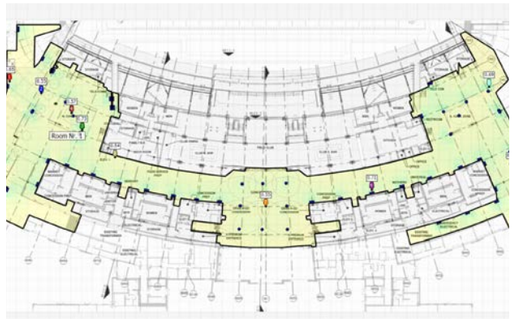
Quality is the cornerstone upon which our passion for engineering is built, as such the Infinity MEP+ family of professionals ensures that we continually educate ourselves in every discipline we work in. Doing so ensures that everything we design reflects the most up-to-date standards and methods which will empower our clients to deliver projects they can be proud of.

INFINITY
MEP+S CONSULTANTS
A Michael Baker INTERNATIONAL Company

Fire & Life Safety Modeling

The Infinity MEP+ Fire Protection Engineering (FPE) team offers a variety of technical modeling services to support unique building design and performance-based design solutions.

We pride ourselves on our quality of work, high client satisfaction and accessibility across the country. We strive to provide cutting-edge fire protection system design and engineering solutions for our clients, while considering aesthetics, function and cost.



Acoustical Modeling with Ease EVAC

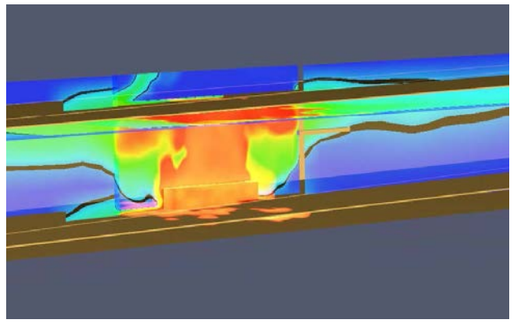
Design and Simulation of Mass Notification Systems

The Infinity FPE team brings expertise and precision to mass notification system design, ensuring optimal intelligibility in challenging acoustic spaces. Simulating and assessing system effectiveness allows for early identification of locations where intelligibility may fall short of requirements. The team proactively addresses potential intelligibility issues during the design phase and provides solutions to prevent costly changes during construction and testing.

Egress Modeling with Pathfinder

Exiting and Occupant Flow Modeling

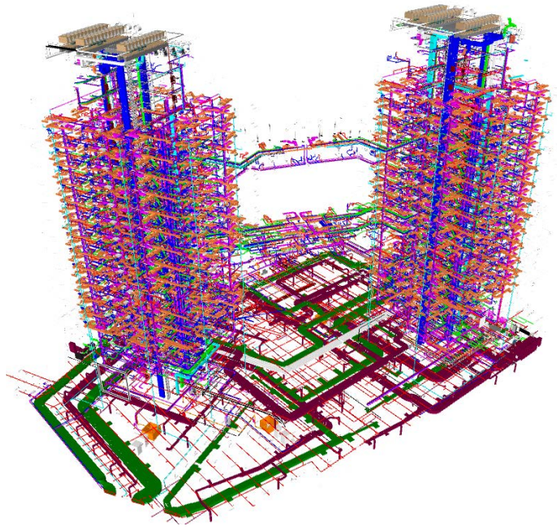
Infinity excels in evaluating building designs to determine accurate Required Safe Egress Times (RSET). Using advanced modeling techniques, occupant behavior is analyzed to identify potential concerns in building design and develop effective solutions for safe and efficient egress strategies. Whether your design aligns with prescriptive code requirements or requires performance-based alternatives, we provide expert guidance to ensure code compliance and occupant safety.

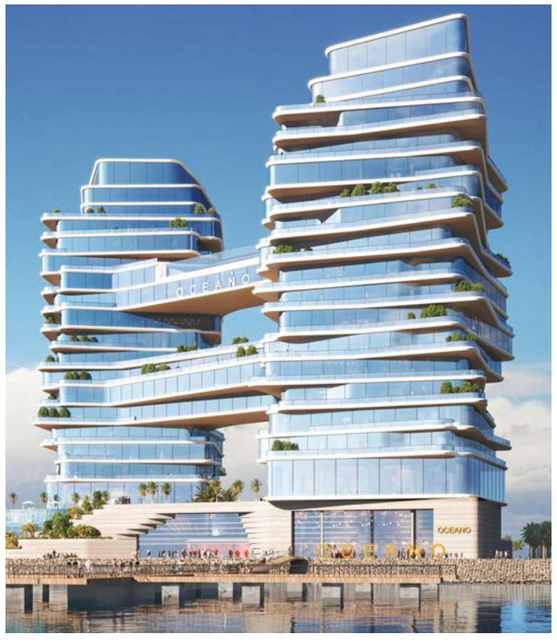


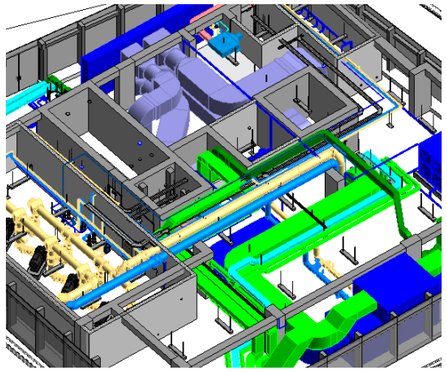
Computational Fluid Dynamic (CFD) Fire Modeling with PyroSim

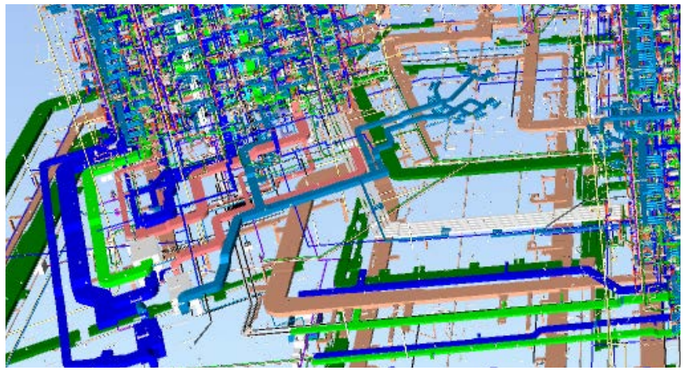
Fire and Smoke Migration Modeling

Our team specializes in fire modeling using design scenarios that provide quantitative and qualitative assessments of fire behavior. These scenarios reinforce the effectiveness of exit strategies or performance-based solutions when strict compliance with prescriptive code requirements isn't possible. This modeling supports smoke control rational analyses, timed egress models, and fire suppression system design, ensuring comprehensive safety measures.









OCEANO Twin-Tower Luxury Residence REVIT Models

BIM INTEGRATION

Infinity MEP+ provides world-class engineering services for all types of projects utilizing the latest in 3D design systems to integrate the engineering design into the architecture and structure of the building. These methods enable us to provide a cost effective and well-coordinated design, ensuring a smoother construction process.

ENERGY EFFICIENT DESIGN

SUSTAINABILITY

Infinity MEP+has extensive experience in energy-efficient design along with improving indoor air quality. The firm has successfully completed multiple LEED-awarded projects and currently employ seven LEED-certified engineers across our offices who are well-versed in sustainable design principles.

Infinity's approach to energy efficiency includes high-performance HVAC system design, optimized lighting and controls, and building envelope coordination to reduce energy consumption while enhancing occupant comfort. We focus on proper ventilation strategies and have no issues opting for low-emission materials to create healthier learning and working environments. Energy modeling and life cycle cost analysis are steps we take to guide design decisions that maximize efficiency.

VALUE ENGINEERING

COST ESTIMATING & CONTROLS

Controlling and anticipating costs is a potential source of anxiety for any client. Infinity MEP+ Consultants has developed strong relationships with subcontractors and vendors, based on years of experience and collaboration on multiple opportunities. To help track the project throughout design and ensure the project remains on budget, we will utilize the experience, expertise, relationships and the expertise of outside cost consultants, if requested.

Controlling costs is of paramount importance, and establishing good communication for the duration of the project is essential to that process. We will collaborate with you to establish the total project budget and incorporate it into the project work plan so that it becomes the framework for our work.

VALUE ENGINEERING

Infinity MEP+works to assist the project team in identifying areas and opportunities to value engineer the project design ahead of the tender issue. We have been highly successful with a proactive approach to identifying items on a project where opportunities exist to save money without sacrificing quality or aesthetic.

LBJ HOSPITAL & PARKING GARAGE

HOUSTON, TX

Our team is providing MEP and Fire Protection design services for the new Lyndon B. Johnson Hospital - a 1.2 million square foot, 12 story, 600-bed hospital with a Central Utility Plant (CUP) and a multistory mixed-use parking structure serving as the new Trauma Hospital for the Harris Health System.

The CUP will house a total of 9,000 tons of water-cooled chillers, cooling towers, 96 MMBtu condensing boilers, and related distribution pumps. Emergency power needs are addressed with the twin 2.5 MW diesel cogeneration system in tandem with up to four 2 MW natural gas generators. Medium voltage (10,200V) electrical service gears will also be housed in the vault located within the CUP. Sustainability is achieved using heat recovery bundles from the chillers and cogeneration system (which provide heating via the hot water circulation loop), in conjunction with the mechanical heating system. The facility includes a 200,000-gallon domestic water tank as well as tank storage for 48,000 gallons of diesel fuel - providing water and power for up to 72 hours in the event of public utility failure.

A unique parking structure will feature approximately one acre of urban garden space, a farmers market, and event space. Additionally, support for urban farming offices and retail areas will be located within the parking structure.

PROJECT DETAILS

CLIENT: Harris Health System

ARCHITECT: HKS, Inc.

SIZE: 1,200,000 SF Hospital

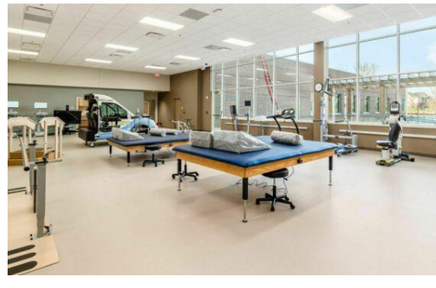
COST: $1.5 Billion USD

COMPLETION: Est. 2028

SERVICES: Mechanical Design
Electrical Design
Plumbing Design

SIGNIFICANT PROJECT FEATURES:

- $150 MM Central Utility Plant (CUP)
- Two 2.5 MW Diesel Cogenerators
- Four 2 MW NatGas Generators
- 10,200V Electrical Service Gears
- 200,000 gallon Domestic Water Tank
- 48,000 gallon Diesel Storge Tank
- 9,000 tons of Water-Cooling Chillers
- 99 MMBtu Condensing Boilers
- 722,800 SF Mix-Use Parking Structure
- 600 Hospital Beds (90 Acute Care)
- BSL3 Isolation Rooms
- Trauma Center & Helipad
- Farmers Market & Event Space



REUNION REHABILITATION HOSPITAL

PLANO, TEXAS

Joining BSA Life Structures on the developer-led Reunion Rehabilitation Hospital, Infinity provided MEP systems design for a 3-story, 51,300 SF, 48-bed hospital which included private rooms, two therapy gyms with advanced treatment equipment, outdoor therapy areas, isolation rooms, and a host of other amenities. Infinity MEP+S also was able to design for med-gas needs, technology for the nurse call system, a 500 KW emergency generator and all TDHS requirements.

The new, cutting-edge facility sits on a 2.5-acre site offering thorough inpatient physical medicine rehabilitation treatments to patients in the DFW area. From start to finish, the Infinity team worked closely with the client and BSA Life Structures to bring their design vision to life.

PROJECT DETAILS

CLIENT: Reunion Rehabilitation Hospital

ARCHITECT: BSA Life Structures

SIZE: 51,300 SF

COST: $18 Million

COMPLETION: 2023

SERVICES: Mechanical Design
Electrical Design
Plumbing Design

SIGNIFICANT PROJECT FEATURES:

- (3) Story Freestanding Hospital
- 500 KW Emergency Generator
- Med-Gas
- 48 Patient Rehab Beds
- Two Therapy Gyms

UT MD ANDERSON CANCER CENTER

HAZARDOUS DRUG PHARMACIES (14 LOCATIONS)

HOUSTON, TEXAS

The team was retained to provide engineering consulting services to evaluate fourteen (14) hazardous drug pharmacies for MD Anderson. The pharmacies are located throughout the City of Houston on several MD Anderson campuses.

MD Anderson was upgrading their hazardous drug pharmacies to meet new, more stringent requirements based on US Pharmacopeia (USP) 797 & 800 standards. These pharmacies are where MD Anderson prepares chemotherapy drugs in hazardous & non-hazardous compounding rooms. We reviewed all Bio Safety Cabinet (BSC) configurations and airflow, as well as evaluated low return air configurations, Fan Filter Units (FFUs), Air handlers (AHUs), filtration systems, HEPA Filters, pressure differentials, pharmacy control systems and air flow analysis.

Going one step further, our team took air flow readings for all supply, exhaust, and return air grills. This allowed us to calculate actual room air flows to meet the USP standards. We also reviewed maintenance logs of the BSCs and HEPA filter change-outs to verity compliance. These findings were summarized on separate reports for each pharmacy, and were essential to the design workflow for each individual location throughout the project.

PROJECT DETAILS

CLIENT: University of Texas System

ARCHITECT: EYP Architecture

SIZE: 14 Pharmacies

COST: $1.5 Million

COMPLETION: 2018

SERVICES: Mechanical Design
Electrical Design
Plumbing Design

SIGNIFICANT PROJECT FEATURES:

- Pharmacy control systems and air flow analysis
- Hazardous Drug Handling
- Meet USP 797 & USP 800 Standards
- Fan Filter Units (FFUs)
- Air handlers (AHUs)
- Filtration systems

UT MD ANDERSON CSC

HOUSTON, TX

Our firm was engaged to help construct the new Consolidated Service Center (CSC) for MD Anderson Hospital operations. We provided mechanical, electrical, plumbing, and technology designs in two phases.

The new CSC is situated within the Texas Medical Center Campus in Houston, Texas, and is meticulously designed to centralize numerous essential departments into a single state-of-the art 380,000 SF facility.

The CSC enhances space utilization & operational efficiency by offering secure, temperature-controlled storage for a wide range of hospital operation needs: hazardous materials, tissue storage, and non-hazardous materials. Additionally, a pharmacy, sterile processing department, and clinical research department will be housed here (along with a full-service kitchen catering to multiple MD Anderson facilities).

3D Energy Modeling services were also provided for building geometry, HVAC systems, construction materials, and the calculation of internal load: thus enabling us to provide an analysis report and recommendations for selecting the most energy-efficient system based on MD Anderson design guidelines to help them meet LEED™ Silver standards.

PROJECT DETAILS

CLIENT: M.D. Anderson

ARCHITECT: Huitt-Zollars

SIZE: 380,000 SF

COMPLETION: 2023

COST: $112 Million USD

SERVICES: Mechanical Design
Electrical Design
Plumbing Design
Technology Design
3D Energy Modeling

SIGNIFICANT PROJECT FEATURES:

- Two 1MW Back-Up Generators
- 1,100 Ton Cooling Capacity
- 600 Ton Chiller Plant (Main)
- 500 Ton DX (Whse / Kitchen)
- 5,000 AMP Electrical Service
- 300,000 SF Facility
- Hazmat Chemical Storage
- Redundant IT / Telcom Feeds
- LEED Silver™ guidelines

MEDICLINIC DERMA

DUBAI, UAE

Infinity joined Massa to provide mechanical, electrical, plumbing design for Mediclinic Dermatology Unit in Dubai Mall. The fit-out areas total to approximately 1,700 square feet. Spaces include consultation and treatment rooms and two Dentis rooms set to be relocated.

PROJECT DETAILS

CLIENT: Mediclinic

ARCHITECT: Massa

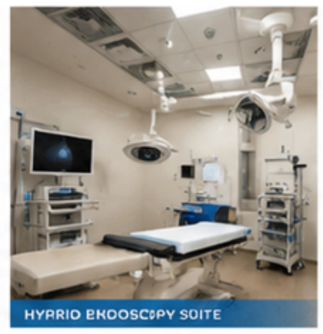
SIZE: 1,830 SF

COMPLETION: In-progress

SERVICES: Mechanical Design
Electrical Design
Plumbing Design
ELV Design

SIGNIFICANT PROJECT FEATURES:

- Full MEP design
- Tenant fit-out & relocation



AMERICAN HOSPITAL DUBAI

DUBAI, UAE

Infinity works on mechanical, electrical, plumbing design, Fire and Life Safety for of Cath Lab, Endoscopy, and Nuclear Medicine suited in the existing American Hospital facility.

The fit-out areas total to approximately 30,000 square feet. Spaces include consultation and endoscopy treatment rooms, Cath lab, Operating Rooms, CT PET and supporting spaces.

PROJECT DETAILS

CLIENT: American Hospital

ARCHITECT: Massa

SIZE: 32,291 SF

COMPLETION: In-progress

SERVICES: Mechanical Design
Electrical Design
Plumbing Design
ELV Design
FLS Design

SIGNIFICANT PROJECT FEATURES:

- Cath lab
- Nuclear Medicine
- Fire & Life Safety engineering

MD ANDERSON CANCER CENTER SUGAR LAND

TEXAS, USA

Infinity MEP provided HVAC and fire system design for the new MD Anderson Cancer Center in Sugar Land, Texas. The project expands specialist oncology services for patients in Southwest Houston and the surrounding communities.

The five-storey facility comprises approximately 44,000 m² of floor area. Its clinical programme includes an ambulatory surgery centre, diagnostic imaging, radiation oncology and multidisciplinary outpatient clinics.

The development also accommodates infusion therapy, interventional radiology, endoscopy, laboratory medicine and pharmacy services. A dedicated utility plant supports the campus infrastructure.

Designed with capacity for future growth, the centre incorporates natural daylight and access to landscaped outdoor spaces. The published design objectives include reducing energy consumption and limiting solar heat gain.

PROJECT DETAILS

OWNER:	The University of Texas MD Anderson Cancer Center
ARCHITECT:	HKS
SIZE:	Approx. 44,000 m² 472,000 SF
OPENING:	2029 (planned)
SERVICES:	HVAC Design Fire System Design

SIGNIFICANT PROJECT FEATURES:

- Five-storey oncology centre
- Ambulatory surgery
- Radiation oncology
- Diagnostic imaging
- Multidisciplinary clinics

Project information: MD Anderson / UT System
Project rendering: MD Anderson Cancer Center

SEBASTIAN KASJAN

Personal Project from Previous Firm

AL MAHA CHILDREN HOSPITAL AL WAKRA

AL WAKRA, QATAR

Sebastian is a Lead MEPF engineer, looking after design and coordination of this 19,000m2 new building on the grounds of the Al Wakra Hospital, with an estimated budget of 305m QAR. The role includes all the MEPF services and PM support in all aspects of the design and stakeholders interaction. The project is an award winning, state of the art design that once built will provide an excellent care for the long term sick children in Qatar.

PROJECT DETAILS

CLIENT: Al Maha Hosptial

SIZE: 204,500 SF

COMPLETION: 2020

NAPOLEON SOLDEVILLA

Personal Project from Previous Firm

AL MAFRAQ HOSPITAL

ADU DHABI, UAE

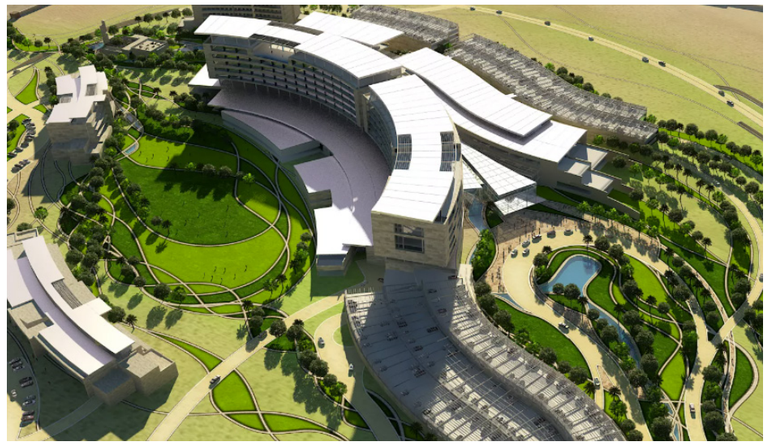
This 742-bed, state-of-the-art and patient-centric tertiary hospital included the Burns Center of Excellence, an outpatient podium building complete with 20 operating theatres, and emergency, diagnostics, surgical, rehabilitation, ICU, maternity & neo-natal, and numerous other Departments. This project was completed by David Sinz and Napoleon Soldevilla.

PROJECT DETAILS

CLIENT: SEHA & Burt Hill

SIZE: 3.3 Million SF

COMPLETION: 2018



NAPOLEON SOLDEVILLA

Personal Project from Previous Firm

ZAYED MILITARY HOSPITAL (CMW)

ADU DHABI, UAE

Napoleon Soldevilla provided Mechanical design for the The Zayed Military Hospital at his previous firm before working at Infinity MEP+S Consultants.

The 1,300,000 SF hospital included 300 beds (expandable to 500), staff housing, medical, surgical, pediatric, ICU, cardiac care and psychiatric centers.

PROJECT DETAILS

CLIENT: Command of Military Works

SIZE: 1.3 Million SF

COMPLETION: X

JOSE JIGGER

Personal Project from Previous Firm

SABAH Al-SALEM UNIVERSITY CITY HOSPITAL

KUWAIT CITY, KUWAIT

Jose Jigger was involved in the design of the Sabah Al-Salem University City Hospital in Kuwait. Alongside Skidmore, Owings & Merrill LLP, Jose designed Electrical systems for areas including 689 in-patient beds and 24 operating rooms. The hospital contains 32 unit 1.6 MVA transformers and 24 unit 1.8 MVA generators.

PROJECT DETAILS

CLIENT: PAC

SIZE: 3.1 Million SF

COMPLETION: In-Design

RESUMES

EDUCATION
Master of Engineering
(Mgr Inz/ MEng) - 2004 Sanitary Engineering (Mechanical & Civil Engineering)

REGISTRATIONS
MCIBSE

MIEI

EC CEng - Chartered Engineer

YEARS EXPERIENCE
20

AFFILIATIONS
CIBSE
IEI
Grade A Engineer - Qatar
Grade A Engineer - Bahrain

Some projects were completed while working at another firm.

SEBASTIAN KASJAN
DUBAI MANAGING DIRECTOR

Sebastian Kasjan is a Chartered Engineer with extensive experience managing multinational MEP teams across Bahrain, the UAE, and India. Before joining Infinity Dubai as Managing Director, Sebastian led diverse teams in delivering award-winning MEP projects for prominent organizations.

Throughout his career, he has contributed to hundreds of projects, specializing in large-scale and complex designs for healthcare, hospitality, municipal, and commercial facilities. His experience includes designing and commissioning large data centers, overseeing multi-phased "live" building refurbishments, and managing projects with construction budgets up to 1.2 billion BHD. Sebastian's project portfolio spans Europe, the Middle East, and North Africa, and he is well-versed in international standards such as ASHRAE, CIBSE, Building Regulations, British Standards, BSRIA, HVCA, HTM, HBN, HFN, Saudi Building Codes, International Codes by the ICC, and NFPA. His deep technical knowledge and global perspective ensure the successful delivery of complex and innovative projects.

HIGHLIGHT EXPERIENCE

HMC –Hamad General Hospital (HGH) Safety Mitigation Project
Qatar

University Hospitals Due Diligence Survey
Jizan & Narjan

Al Maha Centre Children's Hospital
Al Wakrah, Qatar

HMC HGH CCT
Doha, Qatar

Amaala Staff Village
KSA

Hamad General Hospital Various Projects
Qatar

(15) University Hospital Locations
Due Diligence Surveys
Various Locations

Cappagh Hospital New Theatres and CSSD facility

Our Lady Hospital For Sick Children Cardiology Department

HMC Psychiatric Hospital
Doha, Qatar

Six Hospital Refurbishment Projects
Saudi Arabia

Pallas Food Centre
Dublin

The Makers District - Phase 1
Abu Dhabi, UAE

Military Hospital
Sharjah, UAE

St James's Hospital, TB Clinic
Qatar

Cappagh Hospital New Theatres and CSSD facility
Dublin, Ireland

EDUCATION
Bachelor of Science,
Mechanical Engineering
Western Institute of Technology
Lapaz, Iloilo City, Philippines

REGISTRATIONS
Registered Mechanical Engineer:
#30820

YEARS EXPERIENCE
29

AFFILIATIONS
Professional Regulation Commission,
Registered Mechanical Engineer

Philippine Society of Mechanical Engineer

Society of Engineer
Member Society of Fire Protection Engineers, UAE Chapter

TRAKHEES Accredited Design Engineer,
Dubai

Accredited Dubai Municipality Mechanical Engineer

Some projects were completed while working at another firm.

NAPOLEON SOLDEVILLA, ME
SPECIALISM DIRECTOR

Napoleon has over 3 decades years of experience in the field of Mechanical Engineering and the majority of those years have been dedicated to the field of Fire & Life Safety Code Review and Fire Engineering Fighting/ Protection Systems Design, primarily in the Middle East region. He is well-versed in local AHJ requirements and conversant with regional fire code such as the UAE Fire Code (UAEFC-2018), Saudi Building Code (SBC-201 & 801), Qatar Civil Defense requirements as well as international fire codes and standards such as the IBC, NFPA, BS and FOC.

Having established a strong technical foundation with his career, he has attained vast knowledge in the field of fire and life safety code compliance review and analysis and fire engineering using both prescriptive design and performance base design approach, fire risk analysis, design of active fire protection systems.

HIGHLIGHT EXPERIENCE

Al Mafraq Hospital - 742 Bed Super Specialty Hospital
Abu Dhabi, UAE

Zayed Military Hospital (CMW)
Adbu Dhabi, UAE

Al Gayathi Hospital
Western region
Abu Dhabi, UAE

SKMC ED Expansion
Abu Dhabi, UAE

Al Sila'a Hospital
Western Region
Abu Dhabi, UAE

LTCCC Rehabilitation Centre
Abu Dhabi, UAE

Al Rahba Hospital ED Expansion
Abu Dhabi, UAE

Treatment & Rehabilitation Center
Qatar

SKMC Dialysis Center
Abu, Dhabi, UAE

Tawam Dialysis Center
Al Ain, UAE

Mafraq Dialysis Center
Abu Dhabi, UAE

EDUCATION
Bachelors Degree
Mechanical Power Engineering
Cairo University

Master's Student
"Resources Efficiency for Sustainable Cities"
Ain Shams University

REGISTRATIONS
LEED GA, Green Business Certification inc.

Certified Energy Manager (CEM), Assocation of Energy Engineers

Edge Expert, The International Finance Corporation

Sustainable Finance & ESG Principals, CIB

YEARS EXPERIENCE
14

MAHMOUD ABD EL FATTAH
PRINCIPAL MECHANICAL ENGINEER

Mahmoud Abd El Fattah is a seasoned Mechanical Engineer with over 14 years of experience in Building Services design. He brings a deep understanding of mechanical systems and a proven track record of delivering efficient, forward-thinking solutions across a wide range of project types. With a background in mechanical design, supervision, sustainability, and energy management, Mahmoud has contributed to numerous successful developments through his strong technical skills and commitment to best practices.

He is highly proficient in tools such as Revit, AutoCAD, HAP, and BMS systems, and has demonstrated exceptional leadership as both a project manager and a problem-solver. As he looks toward new professional challenges, Mahmoud remains focused on innovation, continuous improvement, and impactful project delivery in the built environment.

HIGHLIGHT EXPERIENCE

Nerhandou Pharmaceutical Factory, 6th of October
Cairo, Egypt

City Centre Almaza (LEED Gold)
Cairo, Egypt

HAM 111 Clinic building
Kuwait

Zweil Science City
Egypt

Prototype Specialized Medical Centers
Jeddah, KSA

Badr Medical City (2000 bed)
Cairo, Egypt

KAFD plot 1.01
Branded Residence
KSA

Um Al Quwain School
Um AlQuwain, UAE

Tarsheed Schools
Qatar

Dammam University
Dammam, KSA

Sulaiman Al Habib Hospital (600 bed)
Riyadh, KSA

Sulaiman Al Habib Hospital (400 bed)
Jeddah, KSA

Some projects were completed while working at another firm.

EDUCATION
Bachelor of Science,
Electrical Engineering
University of Negros Occidental Recoletos

REGISTRATIONS
PRC Registered Professional Electrical Engineer

YEARS EXPERIENCE
30

JOSE JIGGERS S. MABAG
PRINCIPAL ELECTRICAL ENGINEER

A Professional Electrical Engineer with over 30 years of experience in various fields of Electrical Engineering which includes Design for LV & ELV System, Authorities approvals, Site management, Electrical & Mechanical Infrastructures, Hospital, Educational, Commercial and Residential Buildings. Jose well-versed with NEC, NFPA, IDA and IEC Codes/Standards and is always driven to be productive and to share knowledge amongst his team.

Jose is experienced in site and project management for mechanical and electrical projects, excellent technical knowledge in MEP materials and design, specifications & contract documentations, indoor and outdoor lighting designs, high-rise design & calculation for electrical systems (MV, LV and ELV), load schedules, SLD, infrastructure layouts, LLD, ICT & security, FA & emergency lighting, IDA lighting design and more.

HIGHLIGHT EXPERIENCE

Sabah Al-Salem
University City Hospital
Buildings B3 + G + L1-L4 Podium + 4 Tower (T1-L12,T2-L12,T3-L9,T4-L5) and RF
Kuwait City, Kuwait

Kuwait KUHSC Research Center
Kuwait City, Kuwait

5K High-end Staff and Workers Accommodations, Heliport, Mock Up Warehouses & Security facilities (RSDC)

4 Buildings, B+G+12Typ+HC+R at Al Nahda 1
Dubai, UAE

15 G+11 Residential Building Al Furjan and 2-Luxury Residential Building The Palm , 4-Residential Building in Healthcare City, Dubai, UAE

Malayan Plaza Building
52-Story Residential Building
Philippines

DFC Projects 37F Intercontinental, 20F Crowne Plaza Hotel and 34F Commercial Tower

International City Package 7
Greece (Nakheel) 16 units- G+4F and 15 – G+3F units

Mudon Plex Type Townhouses, Villas and Residential Buildings
Dubai, UAE

Electrical Design and MEP Coordination for Residential Buildings, Al Nahda 4 Typical B+G+12+RF & 35 Units G+5+RF
Dubai, UAE

Some projects were completed while working at another firm.

EDUCATION

Bachelor's Degree
Electrical Power Engineering
Helwan University

REGISTRATIONS

Autodesk Certified Professional – Revit Electrical.

YEARS' EXPERIENCE
7

Some projects were completed while working at another firm.

Ahmed Mohamed Abdelfattah

Senior Electrical Engineer

Ahmed is an Electrical Engineer with over six years of experience in Electrical and ELV systems design for hospitality, commercial, residential, industrial, administration, healthcare and infrastructure projects across the Middle East.

He specializes in power, lighting, earthing, lightning protection and ELV systems design, BIM coordination, and multidisciplinary project delivery.

He has contributed to projects across multiple design stages, from concept to tender and construction documentation, ensuring compliance with international standards and local authority regulations.

He is experienced in multidisciplinary coordination and BIM-based workflows using Revit, AutoCAD and Navisworks.

He is committed to delivering innovative, sustainable, and efficient engineering solutions while maintaining the highest standards of technical excellence, quality, and client satisfaction.

HIGHLIGHT EXPERIENCE

- **API Towers** – Dubai / UAE.
- **RP ONE Tower** – Dubai / UAE.
- **Al-Ain Desert Reserve** – Abu Dhabi.
- **Aircraft Maintenance Hangar** – USA.
- **Telal Al-Fustat Park** – Egypt.
- **Badya University** – Egypt.
- **AUC Campus Expension** – Egypt.
- **Harmony International School** – Egypt.
- **Marina Alamein Towers** – Egypt.
- **Maspero Towers** – Egypt.
- **Palm Hills –** Alexandria, Egypt.
- **Arkan Business Park** – Egypt.
- **Hilton Garden Inn Hotel** – Egypt.
- **Semiramis Intercontinental Renovation** – Egypt.
- **Magra El-Oyoun Mall** – Egypt.
- **Arab Investment Bank** – Egypt.
- **FABMISR Bank** – Egypt.
- **Al-Amal Al-Sherif Plastic Factory.**
- **EIPICO Medicine Factory.**
- **River Green Medical Center.**
- **Medical Park Premier Hospital.**
- **AFRA 54, G+16 –** Dubai, UAE.
- **JVC M001 –** Dubai, UAE.
- **DJAZ 038 –** Dubai, UAE.
- **AZIZI VIENCE G+15 –** Dubai, UAE.
- **AZIZI VIENCE G+19 –** Dubai, UAE.
- **Eagle Hills Villas EMAAR** – Egypt.
- **Belle Vie Sport Club EMAAR** – Egypt.

EDUCATION
Bachelor's Degree Mechanical Power Engineering Mansoura University

REGISTRATIONS
LEED GA, Green Business Certification inc.

YEARS EXPERIENCE
6

Some projects were completed while working at another firm.

KAREEM MOSSAD DARWESH

SENIOR MECHANICAL ENGINEER

Kareem is a Senior Mechanical Engineer specializing in HVAC and building services design, with professional experience delivering mechanical solutions for residential, hospitality, and mixed-use developments across the Middle East. He has developed solid expertise in HVAC system design, cooling load analysis, equipment selection, and multidisciplinary coordination within fast-paced design environments.
Kareem has contributed to projects throughout various design stages, from concept development to detailed design and construction documentation. His work includes preparing HVAC layouts, performing load calculations, and developing technical documentation while ensuring compliance with international standards and local authority regulations. He works closely with architects, structural engineers, and other MEP disciplines to ensure fully coordinated and efficient building services designs.

HIGHLIGHT EXPERIENCE

Four Seasons Hotel – Sindalah Island C5 – NEOM, KSA

MASAR Shopping Mall – KSA.

Central Bank of Iraq – Baghdad, Iraq.

Cape Hayat Hotel – RAK Properties, Hayat Island, UAE

INDIGO Hotel IHG 4_star - Yiti Marina – Oman.

Hilton LXR Hotel -Wadi Hanifah - Diriyah DGCL Riyadh - KSA

RAU Al Madina Hotels 9A – Cluster 1 – KSA.

King Abdullah Financial District Plot 1.01 Branded Residences – KSA.

Al Falah Branded Residences , (4-Star Hotel) – Riyadh, KSA.

AFRA 26, G+16 – Dubai, UAE.

The Mangrove - Creekside Urban development Building C4 – Standard Residential - Karachi, Pakistan.

DGDA Government Offices - Diriyah DGCL Riyadh – KSA.

Burj Azizi – Dubai, UAE.

AZIZI SKANDER G+15 – Dubai, UAE.

AZIZI GABRIAL G+14 – Dubai, UAE.

AZIZI VIENCE G+19 – Dubai, UAE.

AZIZI MILAN, G+32 – Dubai, UAE.

AZIZI AZURE HOTEL – Dubai, UAE.

AZIZI JADAF, JABEL ALI – Dubai, UAE.

AZIZI Labour Camps – Dubai, UAE.

AZIZI DHCC , DUBAI ISLAND , UAE

EDUCATION

Bachelor's Degree
Mechanical Power Engineering
Cairo University

REGISTRATIONS

Autodesk Certified Professional – Revit Mechanical.

YEARS' EXPERIENCE
6

*Some projects were completed while working at another firm.

Ahmed Nasser Mohamed
Senior Public Health Engineer

Ahmed is a Public Health Engineer with over five years of experience in plumbing and firefighting systems design for hospitality, commercial, residential, and infrastructure projects across the Middle East. He has strong expertise in hydraulic calculations, water supply and drainage network design, pumping stations, and the preparation of coordinated MEP design packages.

He has contributed to projects across multiple design stages, from concept to tender and construction documentation, ensuring compliance with international standards and local authority regulations, including NFPA, IPC, SBC, and UAE codes. Ahmed is experienced in multidisciplinary coordination and BIM-based workflows using Revit, AutoCAD, Navisworks, and Elite Fire.

He is committed to delivering efficient, reliable, and code-compliant designs while maintaining high standards of technical accuracy and project coordination.

HIGHLIGHT EXPERIENCE

- **Hilton Jeddah Corniche** – Jeddah **–** KSA
- **Omran Business Park**– Muscat –Oman.
- **High-speed train–** Egypt.
- **The Point mixed-use building** – Abha – KSA
- **Zed towers –** 6th of October - Cairo, Egypt .
- **Hilton LXR Hotel -**Wadi Hanifah - Diriyah DGCL Riyadh - KSA
- **RAU Al Madina Hotels 9A –** Cluster 1 – KSA.
- **Ministry of Culture –** KSA.
- **Al Falah Branded Residences , (4-Star Hotel) –** Riyadh, KSA.
- **Suiz Methanol Derivatives Factory –** Suiz, Egypt.
- **Rua Al Madinah Headquarter office -** Riyadh – KSA.
- **AFRA 26, G+16 –** Dubai, UAE.
- **AZIZI SKANDER G+15 –** Dubai, UAE.
- **AZIZI GABRIAL G+14** – Dubai, UAE.
- **AZIZI VIENCE G+19 –** Dubai, UAE.
- **AZIZI MILAN, G+32 –** Dubai, UAE.
- **AZIZI AZURE HOTEL –** Dubai, UAE.
- **AZIZI JADAF, JABEL ALI –** Dubai, UAE.
- **AZIZI Labour Camps –** Dubai, UAE.
- **AZIZI DHCC , DUBAI ISLAND** , UAE.

EDUCATION
Technical Telecommunications Engineer - Sound and Image Speacilization
Ramon Lull University (La Salle)

REGISTRATIONS
COITT: Registered Engineer #10127

YEARS EXPERIENCE
24

AFFILIATIONS
Member of the Institute of Acoustics
MIOA: 50633
www.ioa.org.uk

Some projects were completed while working at another firm.

MARTI DUCH
LEAD ACOUSTIC ENGINEER

Acoustics engineer, specialized in the field of architectural and building acoustics, member of the Institute of Acoustics (UK), with more than 24 years of extensive professional experience in the national and international markets, and 5+ years working on projects in the middle east.

Martí has participated in projects in Spain, France, Qatar, United Arab Emirates, Kingdom of Saudi Arabia, Azerbaijan, Oman, United States, Croatia and China, and has a proven track record of successful projects from luxury hotels, residences, hospitals and commercial buildings, as well as performing art facilities and audiovisual production studios.

HIGHLIGHT EXPERIENCE

Crowne Plaza
Dubai, UAE

OCEANO
Luxury Residential Twin-Towers
Al Marjan Island, UAE

Makers District Residential
Abu Dhabi, UAE

Swiss International School
Dubai, UAE

School of Music Musicarea
Vilanova I la geltrú, Spain

Family Care Authority HQ
Abu Dhabi, UAE

Mediclinic Parkview Hospital
Dubai, UAE

Crescent Hotel (7 Stars)
Baku, Azerbaijan
Ministry of Interior
Jeddah, KSA

FCA Service Center Offices
Abu Dhabi, UAE

Dubai Canal Residences
Dubai, UAE

Teatro Guimerá Renovation
Santa Cruz de Tenerife, Canary Islands

Qatar Olympics Museum
Doha, Qatar

Deyaar Midtown Development
IMPZ
Dubai, UAE

Spanish Pavilion, EXPO 2010
Dubai, UAE

KURSAAL Theatre
Manresa Spain

Kitflus Sound Recording Studios
Tiana, Barcelona, Spain

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