



Infinity's Fire & Life Safety team provides expert solutions for any challenging issues which may arise during our clients' quest to deliver the safest structures possible.

We pride ourselves on our quality of work, high client satisfaction and accessibility across the globe - offering a range of fire protection design services, code compliance expertise, system testing, and commissioning services.

Fire & Life Safety Capabilities



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Why Infinity?

- Registered fire protection engineers (FPEs) and experts with experience across multiple markets. This ensures client across every vertical served.
- Horizontal and vertical design project experience with comprehensive fire protection engineering, suppression system design services, and life safety and code consulting services.
- Delivering a multi-disciplined approach to serve clients in any region across all aspects of Fire Protection Engineering; thus, ensuring clients are served across any sector.



Highlight Fire & Life Safety Experience



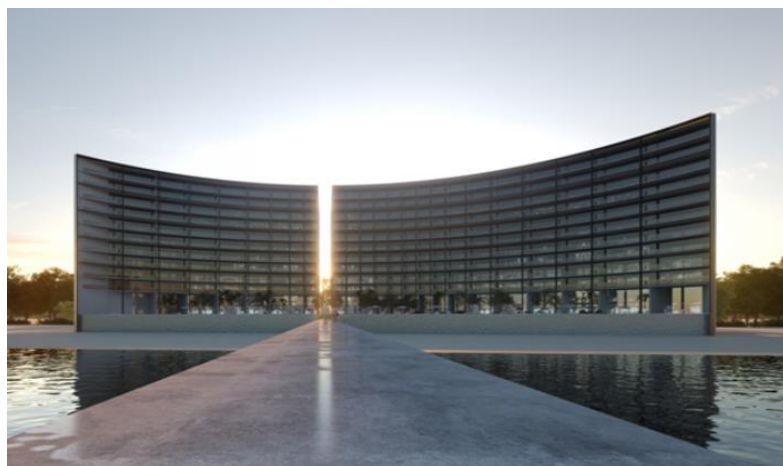
Dubai Crowne Plaza Complex Dubai, UAE

*Client: DEWAN architects
Scope: Building Acoustics, Fire & Life Safety, and Security & CCTV design
2022-23 (Renovation)*



Lamar Sea Mirror Residences Dubai, UAE

*Client: Lamar Development, DEWAN Architects + Engineers
Scope: MEP, Building Acoustics, Fire & Life Safety
In-Progress*



Anatara Hotel & Apartments Sharjah, UAE

*Client: Arada Development, DEWAN Architects + Engineers
Scope: Fire & Life Safety
In-Progress*



Oceano Ras Al Khaimah, UAE

*Client: DEWAN Architects + Engineers
Scope: MEP, ELV, Acoustics, Fire & Life Safety
In-Progress*



**American Hospital Dubai
Dubai, UAE**

*Client: Massa
Scope: MEP, Fire & Life
Safety, and ELV
In-Progress*



**Hunton Trane
Manufacturing Facility
College Station, TX, USA**

*Client: EE Reed
Construction, Goree
Architects
Scope: MEP, Fire & Life
Safety
In-Progress*

Key Design Services & Capabilities



CALCULATIONS & SPECIFICATIONS

- Clean Agent System Calculations
- Computer-Generated Hydraulic Calculations
- High Expansion Foam/Aqueous Film Forming Foam System Delivery & Quantity Calculations
- Specification Development (SpecInSact, MasterSpec, CSI)



FIRE SUPPRESSION SYSTEM DESIGN

- Wet, Dry, Deluge & Pre-action Sprinkler Systems
- Standpipe Systems
- Foam Fire Suppression Systems
- Clean Agent Extinguishing Systems 3D System Design



FIRE ALARM SYSTEM & MASS NOTIFICATION SYSTEM DESIGN

- Fire Alarm & Mass Notification System Device Layout
- Code & Client-Driven Criteria Documentation for Compatibility
- Audibility & Intelligibility



FIRE WATER SUPPLY DESIGN

- Campus & Site Fire Water Distribution System
- Fire Pump Systems
- Fire Water Tank Design



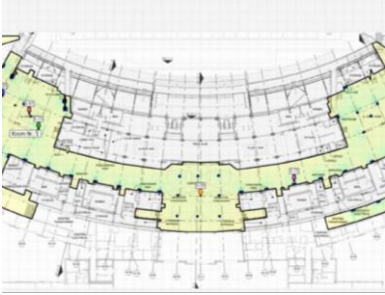
SHOP DRAWING & SUBMITTAL REVIEW

- Installer Shop Drawing Review & Approval
- Manufacturer Software Calculation Review & Approval
- Product Data Review & Approval for Compliance with Project Requirements & Specifications

Fire & Life Safety Engineering Modeling

The Infinity MEP+S Consultants Fire Protection Engineering (FPE) team offers a variety of technical modeling services to support unique building design and performance-based design solutions. We take pride in prioritizing occupant safety while providing designs that meet our client's visions.





Acoustical Modeling with Ease EVAC

Design and Simulation of Mass Notification Systems

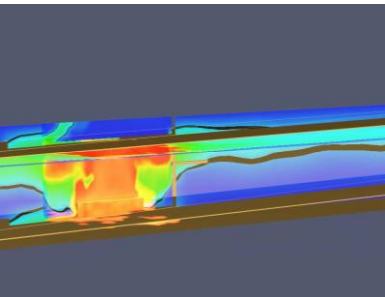
The Infinity FPE team brings expertise and precision to mass notification system design, ensuring optimal intelligibility in challenging acoustic spaces. Simulating and assessing system effectiveness allows for early identification of locations where intelligibility may fall short of requirements. The 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) 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.



Sebastian Kasjan, MEng

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.

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

- OCEANO Luxury Hotel & Residence
Al Marjan Island, UAE
- Family Care Authority HQ
Abu Dhabi, UAE
- Lamar Sea Mirror Residences
Dubai, UAE
- Midtown Development by Deyaar
Dubai, UAE
- Address Jumeirah Gate Dubai
Dubai, UAE
- DCH Emaar - Various Towers
Dubai, UAE
- Bilaj Al Jazayer Boutique Hotels
Beach Club & Mixed-Use Apartments
Bahrain
- Onyx II Skyview at Bahrain Bay
Bahrain
- Google Viewpoint
Dublin
- Avenues Phase 2B - Avenue Mall
King Faisal Corniche Development
Bahrain
- The Avenues - Phase 1
Khobar
Saudi Arabia
- The Avenues - Phase 2
Riyadh, Saudi Arabia
- Microsoft Data Center DB4 & DB5
Dublin
- Al Maha Centre Children's Hospital
Al Wakrah, Qatar
- Amaala Staff Village
KSA
- Bahrain Marina Development
Bahrain
- (15) University Hospital Locations
Due Diligence Surveys
Various Locations

EDUCATION

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

YEARS EXPERIENCE

20

REGISTRATIONS

MCIBSE
MIEI
EC CEng - Chartered Engineer
CIBSE
IEI
Grade A Engineer - Qatar
Grade A Engineer - Bahrain



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.



EDUCATION

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

YEARS EXPERIENCE

29

REGISTRATIONS

Registered Mechanical Engineer #30820
Philippine Society of Mechanical Engineers
Society of Fire Protection Engineers, UAE
TRAKHEES Accredited Design Engineer
Accredited Dubai Municipality
Mechanical Engineer

HIGHLIGHT EXPERIENCE

- | | | |
|--|--|---|
| — OCEANO Luxury Hotel & Residence
Al Marjan Island, UAE | — Eaig HQ
Abu Dhabi, UAE | — Dubai Marina Plot 5JJ, 15-Story
Residential
Dubai, UAE |
| — Diriyah Gate Development
Riyadh, KSA | — KAAR - Package B Building
Makkah, KSA | — Tatweer Towers, 100-Story High Rise
Residential
Dubai, UAE |
| — Shaheeh Development
MAERSK, Qatar | — EXPO 2020 Al Wasl Rove Hotel
Dubai, UAE+ | — The Makers District, Phase I
Abu Dhabi, UAE |
| — Rove Hotel
Dubai, UAE | — Al Mafraq Hospital
Abu Dhabi, UAE | — Polyflow, Advanced Manufacturing
Lab and Warehouse
Saudi Arabia |
| — Family Care Authority HQ
Abu Dhabi, UAE | — American Hospital Dubai
Dubai, UAE | — Zone HB Office Development
Yas-Island
Abu Dhabi, UAE |
| — Lamar Sea Mirror Residences
Dubai, UAE | — TD-55 New Dubai Airport Terminal 1
Dubai, UAE | |

DUBAI

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