









LEDG

SMART BUILDINGS CAPABILITIES

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SMART BUILDINGS CAPABILITIES

	 Pre Design	 Schematic Design	 Design Development	 Construction Documentation	 Construction Administration	 Post Occupancy
Digital Master Planning	✓					
Digital Strategy			✓	✓		
Technology Systems Design	✓	✓	✓	✓	✓	
Low Voltage Design	✓	✓	✓	✓	✓	
Master Systems Integration			✓	✓	✓	✓
Construction Phase Support				✓	✓	
Systems Acceptance Testing					✓	✓
Data Intelligence	✓	✓	✓	✓	✓	✓
Cyber Security	✓	✓	✓	✓	✓	✓

Leading Edge Design Group (LEDG) works with owners, property developers, and facility leaders to create smart buildings that provide memorable occupant experiences and exceptional building performance. We provide strategy, advisory, planning, design, and implementation services to produce efficient, scalable, and sustainable buildings throughout the construction process.

SMART BUILDINGS CAPABILITIES

● Digital Master Planning

- » Create digital vision for multiple buildings, outdoor spaces, venues
- » Develop requirements for digital technologies and systems integration
- » Confirm stakeholder outcomes like sustainability, efficiency, & experience

● Digital Strategy

- » Establish goals for a building's digital experience & performance outcomes
- » Create digital maps for occupants, operators, visitors, and the community
- » Define the digital assets and technology infrastructure requirements

● Technology Systems Design

- » Work with LEDG Registered Communications Distribution Designers (RCDD)
- » Produce the technology systems, integration, and backbone design
- » Develop a testing and commissioning plan

● Low-Voltage Design

- » Create functional/technical specification of:
 - Structured cabling (voice and data system)
 - Security (access control, CCTV)
 - Audio-visual (video conferencing, telepresence systems)
 - Core/shell (entrances, communication, distribution rooms)

● Master Systems Integration

- » Engage with a Master Systems Integration (MSI) consultant for:
 - Integration requirements
 - Systems architecture diagrams
 - Drawing and specification peer reviews
 - Systems deployment and integration
 - Vendor descope and RFP/RFQ support

SMART BUILDINGS CAPABILITIES

● Construction Phase Support

- » Prepare buildings for technology-enabled, integrated devices
- » Verify execution of the owner's technology vision with contractors and vendors
- » Perform bid descope, submission/RFI review, and integration testing approval

● Systems Acceptance Testing

- » Conduct testing to determine if specification or contract are met
- » Test the functionality and integrations of components, & user interfaces
- » Review and approve reporting requirements per specification

● Data Intelligence

- » Develop data intelligence strategy and capabilities including:
 - Data collection and mapping
 - Disparate systems integration
 - Data visualization and dissemination
 - Machine learning

● Cyber Security

- » Construct cyber security and risk management standards for smart building
- » Provide a framework to ensure digital assets are acquired and installed to spec
- » Evaluate the risk of vulnerabilities in the built environment
- » Review and evaluate 3rd party supplier guidelines



Leading Edge Design Group is certified by the National Minority Supplier Development Council (NMSDC) as a Minority Business Enterprise (MBE) and collaborates with architects, engineers, and other partners to provide a full suite of solutions and meet project requirements.

Connect with LEDG

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