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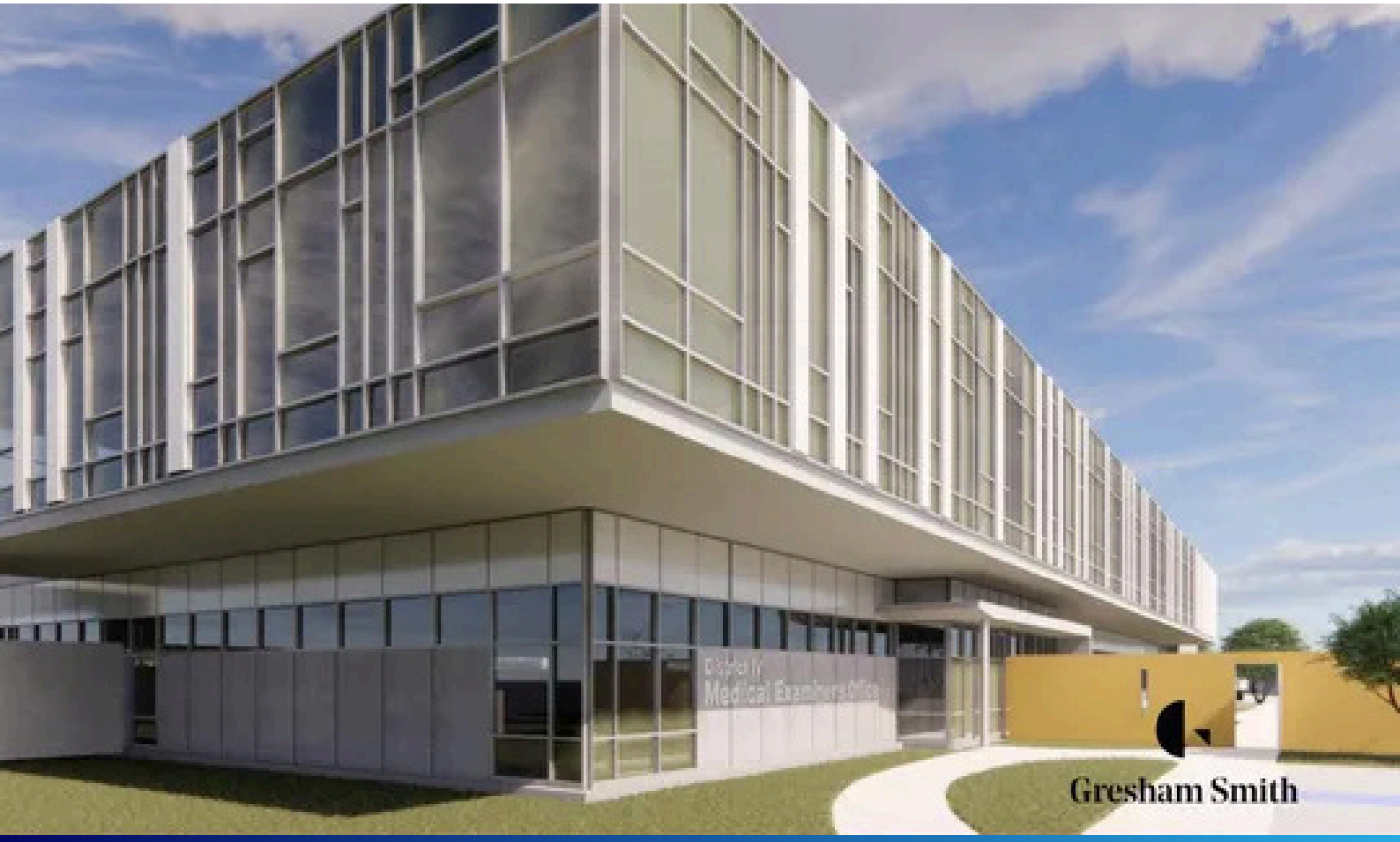
CASE STUDY



MEDICAL EXAMINER'S OFFICE

A Government/ Public Health Facility

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Project Details

To provide state-of-the-art forensic services to support law enforcement, criminal justice agencies, insurance entities, funeral homes, and the general public across Northeast Florida.

Project Name:

- **Jacksonville Medical Examiner's Office Expansion**

Vertical:

- **Government/ Public Health**

Date of Completion:

- **2025**

Location:

- **Jacksonville, Florida**

Primary Use Case:

- **Smart lighting and control**

Project Size:

- **Building Square Footage:** 51,000
- **Capacity:** Up to 300 decedents (compared to the previous capacity of 100)

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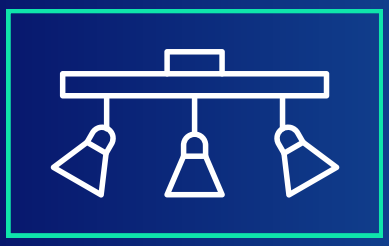
Project Needs

In response to increasing forensic service demands, driven by the opioid crisis and COVID-19, the city began building a state-of-the-art facility on North Davis Street.



PoE-enabled fixtures

IoT & PoE-enabled software

Customization and control

Solution

1

Installation

MHT provided installs with MHT Lighting fixtures and/or compatible PoE-enabled fixtures with a variety of vendors.

2

Setup

Our team of experts ensured a streamlined setup with our Inspextor software and provided users with ample training.

3

Control

Total control and customization is now available at the users' fingertips with our Inspextor software, which allows for automated settings and real-time control.

Process

Project Proposal → **Need Assessment** → **Installation/ Completion**

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Overview:

The Jacksonville Medical Examiner's Office, historically located at 2100 Jefferson Street, has served multiple counties, including Duval, Clay, Nassau, Hamilton, and Columbia. With the rising demand for forensic services, exacerbated by factors such as the opioid crisis and the COVID-19 pandemic, the city embarked on constructing a cutting-edge facility at North Davis Street, near I-95 and Golfair Boulevard.

The new two-story structure is designed to enhance operational efficiency and forensic capabilities while meeting the community's needs for public safety and medical examination services. The facility's infrastructure ensures an energy-efficient and smart environment, streamlining forensic operations while enhancing safety and security.

Scope of Work:

The Jacksonville Medical Examiner's Office expansion integrates a PoE-based smart lighting and control system to enhance efficiency, security, and sustainability. The facility features 1,210 PoE-enabled lighting fixtures, including linear recessed lighting, volumetric troffers, downlights, and architectural wraps, all managed through MHT Technologies' Inspextor platform for real-time control and automation.

With 775 PoE nodes and 207 emergency nodes, the system ensures reliable operation, even during power outages. Advanced motion sensors, occupancy controls, and wall-mounted switches adjust lighting based on real-time usage, optimizing energy efficiency while maintaining a high-performance forensic environment. The Inspextor software manages over 1,117 PoE nodes, enabling seamless integration with security and emergency protocols.

By leveraging PoE technology in government buildings like the Jacksonville Medical Examiner's Office, facilities can reduce infrastructure costs, minimize maintenance, and support a future-ready building automation approach. This smart lighting system enhances forensic workflows, ensuring compliance with medical standards while improving operational efficiency and user comfort.

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Project Inception:

The decision for PoE in the new Jacksonville Medical Examiner's Office was driven by the need for a cost-effective, scalable, and energy-efficient lighting solution that could support the facility's advanced forensic operations and security requirements.

- **Energy Efficiency:** PoE technology significantly reduces energy consumption compared to traditional lighting and control systems.
- **Cost Savings:** Simplifies installation, reduces labor costs, and decreases operational expenses through automation.
- **Enhanced Control & Monitoring:** Inspextor software provides real-time analytics, remote control, and automated lighting adjustments to improve efficiency.
- **Safety & Redundancy:** Emergency PoE nodes ensure uninterrupted functionality during power outages.

> **We approach each project with its unique needs in mind.**

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Smart Control and Integration:

- **Inspextor Smart Lighting Management:**
  Provides real-time adjustments, scheduling, occupancy detection, and remote management.
- **Advanced Sensors & Occupancy Controls:**
  Ceiling-mounted and wall-integrated occupancy sensors optimize energy use and safety.
- **Emergency & Security Lighting:**
  Integrated security lighting and emergency nodes ensure visibility and safety in critical areas.

Key Benefits and Outcomes:

- **Enhanced Capacity:**
  Accommodates 300 decedents, tripling the previous capacity.
- **Forensic Technology Upgrades:** State-of-the-art equipment and lighting improve investigative efficiency.
- **Smart Building Infrastructure:**
  PoE-based lighting and automation enhance energy savings, control, and sustainability.
- **Improved Community Services:**
  Faster case processing benefits law enforcement, medical professionals, and the public.

> **Our goal for the Jax MEO was to deliver a reliable system that enhances efficiency, security, and operational control.**

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Quick Facts

The Jacksonville Medical Examiner's Office expansion integrates a PoE-based smart lighting and control system to enhance efficiency, security, and sustainability.

1,210
PoE fixtures installed

1,117
PoE nodes installed

359
Smart sensors & wall switches installed

Key Benefits

Customization

Energy-efficient

Control

CONCLUSION

The Jacksonville Medical Examiner's Office expansion marks a transformative step in forensic science infrastructure. While the project has encountered community concerns regarding its location, its benefits—enhanced forensic capacity, modernized technology, and improved operational efficiency—outweigh challenges. By leveraging PoE technology and smart automation, the facility sets a new standard for medical examiner offices nationwide.

For more details and project updates, contact MHT Technologies for insights into the smart lighting solutions used in this project.

2025
Project Completion

48,000
Total Project Square Footage

1210
PoE Fixtures Installed

INSPEXTOR
MHT LIGHTING
Products Used

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About MHT Technologies

Nearly in 2009, MHT Technologies (MHT) began as MHT Lighting, a company focused on the early development of LED, low-voltage, and PoE-based lighting fixtures. By 2015, the company started developing Inspextor, a PoE-based software solution for smart buildings.

Today, we are a technology company that provides a software-based solution that takes sensor-based feedback and turns it into actionable data to provide a safer, more productive, sustainable, and lower-cost space for owners and occupants. Our PoE smart building technology platform, Inspextor, is a market-leading software solution to connect your devices and systems into one easy-to-manage interface. MHT has been granted three (3) U.S. Patents on Inspextor, which sets it apart in the PoE industry.

MHT's 55,000 sq/ft facility, located in New York, has received ETL, UL and ISO 9001:2015 listings and certifications. MHT Technologies continues to product PoE and line voltage lighting fixtures under the MHT Lighting product line.

Our staff of engineers, software developers and lighting designers provide MHT's clients with the experience necessary to take their lighting project from the drawing board to implementation.

AKRAM "AK" KHALIS

MHT Technologies CEO & Inspextor Co-founder

> ***Guiding MHT Technologies is about transcending limits and redefining what's possible. As CEO, my focus is on creating a company culture where we are united by a vision to improve customer experiences and shape the future of smart building technology.***

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