Wireless and Networked Applications

Internet of Things (IoT)

Areas of Specialty

- Full digital project lifecycle scope including wireless/wired use case identification, feasibility/ economic studies, component selection, design, system integration, testing, and programmatic enhancements.
- Network applications (monitors, cameras, etc).
- Critical asset protection.
- Cybersecurity.
- Maintenance and diagnostic center support and development.
- Bounding technical requirements/critical characteristics to reduce design burden.
- Digital component lifecycle management.
- Electromagnetic compatibility (EMC).
- Identification of cost or labor intensive maintenance or operations activities/opportunities for automation.

About Sargent & Lundy

Sargent & Lundy is one of the longest-standing and most experienced full-service architect engineering firms in the world. Founded in 1891, the firm is a global leader in power and energy with expertise in grid modernization, renewable energy, energy storage, nuclear power, fossil fuels, and carbon capture. Sargent & Lundy delivers comprehensive project services – from consulting, design, and implementation to construction management, commissioning, and operations/maintenance – with an emphasis on quality and safety. The firm serves public and private sector clients in the power and energy, oil and gas, industrial, and government markets.

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Why Clients Choose Sargent & Lundy

Our comprehensive experience with nuclear facility I&C projects enables us to offer full-service solutions to clients.

- Leading industry digital subject matter experts.
- Leader in design and implementation of wireless backbones across the industry.
- Integrated project teams of digital engineers, consulting specialists, and operations and maintenance personnel.
- Long history of meeting and exceeding client's needs and expectations.
- Commitment to innovation.
- Understanding of complexities associated with developing large-scale, cutting-edge projects.
- Successful integration of new OEM technologies into projects
- Existing system of established procedures, processes, and qualifications to execute/conduct IoT work tasks.

IoT Project Experience

- Wifi system design.
- Distributed antenna system design.
- Wireless instrumentation for use with condition-based maintenance.
  - Pump/motors
  - Vibration
  - Remote service (dry cask, outdoor equipment, etc)
- Power-over-ethernet (POE) and thermal camera installation.
- Wireless gauge readers.
- Remote fire monitoring.
- Radio Frequency Identification (RFID) tool monitoring.
- Radiation monitoring.