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Building Automation & Controls

The automatic centralized control of a building's conditions and systems through a building management system. The purpose behind building automation is to improve occupant comfort, efficient operation of building systems, reduction in energy consumption and operating costs.

HVAC Systems
Air temperature and quality control. Heating-Ventilation-Air Conditioning

Fire Alarm Systems
Automatic response system built to detect and warn building occupants through visual and audio appliance when smoke, fire, carbon monoxide or other emergencis are present.

Security Systems
Built up of a network of integrated electronic devices working together with a central control panel to protect against building intruders.

Communications
Telephone access, intercom, video conferencing and emergency call systems.

Environment Monitoring
Temperature and fan automated controls. Works directly with HVAC Systems

Lighting Controls
Systems put in place to turn on, off or dim lighting. The system can be based on the time of day, occupancy, or a timer.

Access Control
Security system that can be used to regulate who or what can enter a building.

Survelliance Systems
A closed-circuit television system used to maintain close observation of a person or group.

The Professionals
What do they call themselves?

Facility Servicers	Security Systems
Mechanical Engineers	Energy Systems
Industrial Engineers	Electrical Engineer
Contractor	Environmental Services
Building Management System Technician	Electrical Manufacture

Industry Buzzwords

IoT (Internet of Things)
System of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability to transer data over a network without requiring human-to-human interacting.

M2M (machine to machine)
Direct communication between devices using any communication channel, including wireless and wired.

Smart Building
The intergration of building technology, and energy systems. The systems include building automaiton, life safety, telecommunications, user systems and facility management systems.

Power In Numbers
Top Associations

R&D Related Associations

InsideIQ BUILDING AUTOMATION ALLIANCE — Association for Advancing Automation — NSCA
MCAA — mcma Motion Control & Motor Association — ria Robotic Industries Association
CSia Connected Community — aia advancing VISION + IMAGING

179D Related Associations

AIA — CFMA — ACEC American Council of Engineering Companies 100 Years of Excellence
NECA National Electrical Contractors Association — SMACNA — MCAA
IEC PRIDE — CAM Construction Association of Michigan

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