



### Education

BS, Electrical Engineering/Computer Science, Illinois Institute of Technology, 1987  
Joined Firm in 2011

Years of Experience: 35

### Certifications

Certified Energy Manager® (CEM®): Accreditation recognizes individuals who have demonstrated high levels of experience, competence, proficiency, and ethical fitness in the energy management profession, Administered by the Association of Energy Engineers

### Professional Associations

Association of Energy Engineers, American Water Works Association

### Continuing Education

GE HMI/SCADA iFix Fundamentals  
Industrial Network Systems, 2015

Performance Contracting, Certified Energy Manager Prep, Association of Energy Engineers, 2012

Introduction to Sustainable Heating Technologies, Building Codes & Standards, ECC, 2009

SolidWorks Essentials, Drawings, Sheet Metal & Weldments, Computer Aided Technology Inc., 2008

S7 TIA Programming I (PLC),

D Series Maintenance I (CNC) & II, Siemens Energy & Technology 2006

Class K WWT Operators License Training, Scientific Control Laboratories, Inc., 2001

### Course Instructor

Adjunct Instructor, ECC Dept. of Energy Mgmt



## JOSEPH F. BAPPERT, CEM

### SCADA/AUTOMATION LEAD

Joe has extensive experience as an automation, controls, and process engineer. He consults on planning, design, and implementation of a variety of technology related projects, including instrumentation, controls, SCADA systems, telemetry systems, information technology projects, and support. Joe has provided services for all phases of projects from initial design through final completion. He also specializes in energy management projects, dynamic systems issues, control system resiliency, VFD fault recovery improvements and valve control issues.

His broad-based knowledge of hydraulics, pneumatics, metal fabrication, machine building, HVAC, facilities management, information technology, and advanced controls provides him the ability to solve complex systems design, start-up and emergency breakdown issues.

Joe also trains client and corporate groups on systems operation, maintenance, and emerging industry topics.

## REPRESENTATIVE PROJECTS

### Mundelein, IL

#### Water Systems Energy Efficiency Performance Contract

Instrumentation & control Project Manager for energy performance contract. Coordinated complex water control systems programming and startup. Brokered competing engineering and client operating requirements. Optimized pressure reducing valve operation for inter-zone flow requirements.

### Lincolnshire, IL

#### SCADA System Upgrade

Project Engineer for SCADA system upgrade, including implementation of cell and VHF telemetry. Activated pulse output of stand-alone water plant power monitor, connected to the control system and integrated power use data into the SCADA system for monitoring and trending.

### South Elgin, IL

#### SCADA Improvements

Engineered, coordinated, and implemented the relocation of the master telemetry and SCADA systems, tunneling data over a newly installed fiber wide area network.