A SMALL BUSINESS WITH BROAD CAPABILITIES, SPECIALIZING IN DESIGN/BUILD CONTROL SYSTEMS INTEGRATION, PROCESS AUTOMATION, WIRELESS COMMUNICATION AND ELECTRONIC SURVEILLANCE

LATA is a small business self-performing electrical design, specification, control panel fabrication, PLC and HMI programming and development, wireless communication solutions, process optimization, field installation, system commissioning, and training to private industrial, Federal, State and Local government clients worldwide.

LATA has delivered specialty design/build electrical and IT-related services over the past 40 years. LATA supports and operates systems across the country. LATA projects are supported by a well-developed business and project management infrastructure including robust project control and comprehensive safety and quality programs.

LATA has an extremely successful track record forming and managing multi-discipline task teams, mobilizing forces, and marshaling equipment to perform a broad range of systems integration solutions at widely dispersed sites, including:

- Manufacturing facilities
- Water / Wastewater facilities
- Lock and Dam facilities
- Nuclear Weapons facilities
- Coal Combustion Residuals pond de-watering/stabilizing/water treatment
- Coal fired utilities
- Environmental restoration sites, and
- Commercial and industrial landfills.

DEPTH OF EXPERIENCE ACCUMULATED FROM OVER 40 YEARS OF SUCCESSFUL PAST PERFORMANCE

In addition to its work for the Departments of Defense, Energy, and State, the Tennessee Valley Authority, and state and municipal agencies such as the Ohio Environmental Protection Agency, Ohio Department of Transportation and numerous local municipalities, LATA has delivered design/build project results to commercial clients including Goodyear, Cooper Standard Automotive, TOTAL Petrochemical, Bridgestone Firestone, Continental Tire, Monsanto, BP Oil, Ford, and Borden.

LATA brings strong industrial and commercial best practices to its work, driven by a project-delivery mindset that is especially relevant to fixed-price contracts.

SMALL BUSINESS WITH A “LARGE BUSINESS” CAPABILITY

- engineers, programmers, construction managers, and other professionals
- History of successful project execution and continuing relationships—successfully performed contracts for 30 years
- Specializing in self-perform design/build controls projects
- A leader in implementing remotely operated water distribution, environmental treatment and electronic security systems
- International experience—projects in over 20 countries during the past three years
- Excellent bonding/insurance capacity
- Qualified Small Business under NAICS Code 335314, 334513, 562910 and 541710
- Also manages facilities, develops and implements information technology systems, security systems, instrumentation/controls, and support clients to optimize industrial process production rates and reduce downtime

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OUR PRIMARY SERVICES

- Project management and control
- Full-service electrical engineering, process control and automation (design/specification through commissioning)
- Fully staffed design, engineering, and drafting department (with P.E. Stamps) to develop designs and plans
- Specialty process automation & SCADA control systems
- In-house software programming, configuration, troubleshooting and calibration – both controls and security systems
- Remote treatment system operations and maintenance
- Municipality water/wastewater treatment system controls and automation
- Partnered with UL Listed Panel Shop, U.L. 508(a), for fabrication of specialty industrial control/security panels.
- High speed labeling on bottling, packaging, food manufacturing, etc.
- Integrated wireless communications solutions
- Electronic security & video surveillance management and monitoring
- Long-term monitoring & surveillance
- Design and build command and control centers
- Licensed electrical contractor – installing our own conduit, hardware, fiber optic cable, etc.
- General construction / contracting personnel and company-owned heavy equipment
- Army Corps Construction Quality Assurance Training certified personnel
- Preferred integrator pricing from our suppliers to procure require hardware and materials
- Systems trouble-shooting, diagnostics, repair, operations and maintenance
- System commissioning, startup, and training of system operator personnel

Performance Highlights:

- Currently monitoring / operating remote treatment systems nationwide.
- Performed the first encrypted wireless security system for the Pittsburgh Army Corps of Engineers.
- Performed industrial automation projects for numerous Fortune 100 companies (including Superfund sites)
- Zero lost time accidents over the past 5 years (Experience Modification Rate (EMR) of 0.63)
### Selected Clients:
- Ashland Chemical
- Bechtel National
- Borden
- BP Oil
- Bridgestone / Firestone
- CEMEX
- Continental Tire
- Cooper Standard Automotive
- Cummins Engine Company
- Duke Energy
- DuPont
- Ford
- Goodyear Tire & Rubber Co.
- Honda North America
- Honeywell
- IBM
- Kokosing
- Monsanto
- Nestle
- Ohio State University
- Stanley Electric
- Scripps Research Institute
- TOTAL Petrochemical
- TVA
- U.S. Department of Energy
- U.S. Army Corps of Engineers
- U.S. State Department
- And numerous Municipalities and Engineering Firms for Public Works projects.

### HARDWARE & SOFTWARE FAMILIES SUPPORTED

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<tr>
<th>Manufacturer</th>
<th>Product Family</th>
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<tr>
<td>ABB Drives</td>
<td>ACS, DCS Families</td>
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<td>Automation Direct PLC Series</td>
<td>Direct Logic-</td>
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<td>Automation Direct HMI Series</td>
<td>C-More Panels, EZ Touch Panels</td>
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<td>Automation Direct AC Drives</td>
<td>GS1/2, Durapulse</td>
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<tr>
<td>Allen-Bradley PLC Series</td>
<td>CompactLogix, MicroLogix, Cortilogics, SLC &amp; PLC5 families</td>
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<tr>
<td>Allen-Bradley HMI Series</td>
<td>PanelView &amp; VersaView Families</td>
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<td>Allen-Bradley Drives</td>
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<td>Allen-Bradley System Management</td>
<td>Asset Centre</td>
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<td>Control Techniques Drives</td>
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<td>Eaton/Cutler Hammer HMI</td>
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<td>GE Fanuc PLC Series</td>
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<td>KEP</td>
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<td>OMRON PLC Series</td>
<td>CS1, CPM, CV Families</td>
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<td>OMRON HMI Series</td>
<td>NT &amp; NS Families</td>
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<td>Parker Servo Systems</td>
<td>6200 &amp; 6400 Families</td>
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<td>Pelco—Security Systems</td>
<td>Fixed and PTZ cameras, DVRs, multiplexer’s, switchers</td>
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<td>Red Lion HMI</td>
<td>CRSeries, cNet Family</td>
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<td>Reliance Drives</td>
<td>SP, GV, FlexPack Families</td>
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<tr>
<td>Schneider/Modicon PLC Series</td>
<td>TSX Micro, Quantum, Momentum, M340</td>
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<td>Schneider/Modicon HMI/SCADA</td>
<td>Megelis Family, Vijeo, Vijeo/Citect</td>
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<td>Schneider</td>
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<tr>
<td>Siemens PLC Series</td>
<td>S7-200 Micro, S7-300</td>
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<td>Siemens HMI Series</td>
<td>Simantec, WinCC</td>
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<td>Siemens AC Drives</td>
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<td>Specter</td>
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<td>SyTech</td>
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<td>Tyco / Software House</td>
<td>C-CURE 800 Security Management Software</td>
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<td>Wonderware</td>
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<tr>
<td>Yaskawa Drives</td>
<td>S7 &amp; V7 Families</td>
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LATA has worked as the sole controls, automation, and electrical engineer for Cooper Standard Automotive. In this capacity, LATA performed all design/build controls projects, programming, documentation, drafting, and specialty mechanical and electrical automation and fabrication in support of Cooper’s specialty tubing manufacturing, coating, and bending operations to the automotive industry. LATA upgraded safety programming logic, electrical, and mechanical safety controls on existing lines as well as implementing these safety measures on new line installs. Tasks include:

- Design/Build/Programming of (19) Siemens and Allen-Bradley PLC-based Control Systems for the tubing and coating mills
- Control panel fabrication, installation, termination of field devices
- On-going controls troubleshooting, modifications, and increasing of process up-time
- Specialty mechanical automation—design/fabricate/install/start-up
- Installation / Upgrade of E-Stop Buttons, Machine Gate Latches, E-Stop Pull Cords, Safety PLC’s, and HMI Safety Interface
- Documentation and design of new process lines that come into the plant
LATA was contracted by AECOM and the State of Ohio Department of Transportation to develop a standardized, process automation system for new Waste Water Treatment Plants throughout the State of Ohio. These installations greatly reduced operations costs, site visits, and permitted remote operation and monitoring of all of the systems from a standard office PC.

- LATA specialty fabricated stainless steel control & power panels
- Allen-Bradley PLC-based controls system
- New “Web-based” panel mounted operator interface for local and remote monitoring and operations of the plants
- Wireless radio communications between main treatment plant and the associated lift stations
- Real-time monitoring and reporting for environmental compliance
- Standardization of components ensure uniformity between other treatment facilities
- Entirely remote operations / troubleshooting possible
3. EMSWORTH LOCKS & DAMS—CRITICAL SECURITY UPGRADES
U.S. ARMY CORPS OF ENGINEERS—PITTSBURGH DISTRICT

LATA performed the first Security Upgrades for Pittsburgh Army Corps - including the Design and Integration of a CCTV and Electronic Security System (ESS) on Emsworth Locks and Dams. This particular installation consists of securing 2 separate dams using a 1-mile wireless Ethernet bridge connection across Neville Island.

- Design / Shop drawings
- Installation of CCTV, ESS and Intrusion Detection system
- Installation, programming and configuration of Central Station Software/Hardware
- Installation of fiber optic cabling backbone
- Endurance testing
- Startup, testing, and training of Corps personnel

First installation in Corps program to incorporate encrypted wireless communication into a critical security upgrade.

Variety of Camera, PLC and HMI panels.

4. MOTOR WHEEL DISPOSAL SITE (MWDS) SCADA SYSTEM
PRIVATE INDUSTRIAL CLIENT

LATA served as lead engineer assisting the client in the design, implementation, and integration of a comprehensive SCADA system. LATA initially designed the system to network three separate systems together via spread spectrum radio providing a long term cost effective strategy for communications between remote nodes. As the technology changed, LATA upgraded replaced the radios with cell modems and fiber optic cable and has systematically upgraded the five separate Allen-Bradley SLC-5/03 programmable controllers with Allen-Bradley CompactLogix Controllers.

- Electrical and controls design review of the remote telemetry system
- Manufacturing of all process control panels with integrated PLC and HMI Programming and Design
- Used Allen-Bradley integration with Intellution FIX operator interface software upgraded to Factory Talk SE
- Integrated Radio System using Allen-Bradley PLCs in DF-1 and ethernet protocol
- Data management and support
- Continuous monitoring/control of remote treatment system
- Remote operation and monitoring with >94% uptime for a 2500 gpm system
- Interconnection of 5 remote controls panels—standalone network
LATA was the prime contractor on the implementation of a county wide water distribution SCADA system. The system architecture incorporates Intellution iFIX SCADA hosts with an Allen-Bradley ControlLogix PLC as the SCADA Master. The remote PLCs are Allen-Bradley CompactLogix PLCs communicating with the SCADA Master via a 450 Mhz Microwave Data Systems radio network. The single SCADA Master communicates with and controls (21) Twenty-one remote booster stations and water towers across a 3-county area. LATA designed and installed all system components. LATA was responsible for all system integration, field commissioning, and training.

- Electrical and controls design review of the remote telemetry system
- Allen-Bradley PLC integration with GE Fanuc iFIX operator interface software
- Integrated Radio System using Allen-Bradley PLCs in DF-1 protocol
- Data management and support

LATA is a full service integrator:
- Electrical design drawings
- PLC and HMI Programming
- SCADA System Design using GE Fanuc iFIX
- Manufacturing of industrial control panels
- Electrical contractor services installing/ wiring all control panels
- Setup and configuration of a stand-alone control system network
- Obtaining communications between remote panels
- Remotely controlling 21 water towers/tanks and Booster Stations across 3-counties from a single PC
LATA was contracted to perform systems integration / process automation of a Water Treatment Plant for the City of Ashland, Ohio. Responsible to entirely automate the City’s newly upgraded treatment plant.

- Design / Fabrication drawings
- Installation / termination of fiber optic communication cabling backbone
- Programming and networking of (8) eight separate PLCs and associated filter consoles and control panels
- Manufacturing and programming of local PanelView touch screen control panels at each control panel
- Entire system control, setpoint entry, historic trending and reporting via iFIX SCADA system on operators PCs
- Incorporates remote monitoring of the City Water Distribution system—water tanks and well fields through SCADA

Design / Build Groundwater treatment system upgrade at the DOE Fernald facility in Harrison, Ohio. LATA’s role included demolition of the old system, piping and instrumentation of the upgrades and self-performing the instrumentation and controls portion. The groundwater system includes multimedia filters and ion exchange filters connecting over 23 extraction wells and landfill leachate.

- A single, small business primed this work.
- Performed demolition and construction of the upgrade.
- Design / Build of PLC-based controls in order to fully automate system operation
- SCADA System Design
- Decommissioning of former system components.
LATA was contracted to provide a new supervisory control and data acquisition (SCADA) system for the Corps of Engineers Berlin Dam located on the Mahoning River west of Youngstown, Ohio. The contract called for the upgrade of the existing Allen-Bradley based SCADA system, replacement of gate positioning potentiometers, and a comprehensive SCADA capability providing remote monitoring and control.

This new system permitted the Corps to monitor the lake levels and operate the dam gates and valves remotely from the Pittsburgh district office or locally with facility personnel from an industrial touch screen control station.

LATA designed, built, and installed a rugged, custom-built, universal potentiometer bracket for measuring/controlling the actual position of the gear housing on the bulkhead for gate opening/closing. This design has proven reliable for multiple years in a very harsh environment.

LATA offers a diverse background:
- Manufacturing of control panels and incorporation of PLC and HMI Programming into those panels
- Obtaining communications between remote panels
- Remotely controlling Dam gates, valves, and water levels
- Connecting to the Army Corps Network infrastructure
- Work for the Army Corps of Engineers
- Custom design mounting hardware for harsh environments
LATA was hired to perform electronic security systems integration for the U.S. Army Corps of Engineers as part of their “Critical Security Upgrades” program for the protection of river navigation and the Locks & Dams themselves from potential terrorist activities.

LATA developed the design drawings, interconnection plans, panel layouts, equipment specification, and coordination of needed area-specific “intrusion zones” and camera scanning zones. The design documents were reviewed and approved by the Army Corps and a third-party committee to ensure the plans met Corps-specific critical security protocol.

With an approved design, our security technicians fabricated all local and remote alarm panels and the associated “Head-end Rack” which was responsible for monitoring all site panels & sensors, controlling cameras to pan-tilt-zoom to preset zones based on the sensor that is tripped, recording all site cameras 24-hours/day 7-days a week on a Digital Video Recorder, and recording access/egress of personnel via proximity card-readers at all intrusion zones, gates and doors. LATA entirely self-performed; the field installation of all field components, wiring and conduit; programmed the integrated security server; performed system start-up and Endurance Testing; and trained all Corps personnel on the operation of the system.

The Emsworth Locks & Dams encompass two separate Locks and Dams divided by an Island on the Ohio River, PA. Both dams utilize fiber optic cable to communicate long distances along the dam structure between the individual alarm panels and the camera systems. The original Corps concept was to have a single master Headend Control Room at the Main Channel Dam, and to communicate and control the numerous Back Channel Dam sensors, panels, and cameras via a 1.5 mile fiber optic backbone hung on power poles across the island between the two dams. The Corps encountered numerous real estate, zoning, and easement issues associated with the local power, telephone, and railroad leases necessary to install the fiber through this largely industrial area.

LATA developed a design/build alternative to the fiber across the island by using an encrypted wireless Ethernet bridge to communicate between the two Dams. This alternative saved the Corps thousands of dollars in recurring costs various utilities needed to route the fiber—at the same time this new design created a significantly safer installation by keeping all communications and security equipment on Corps-owned property.
LATA was contracted by the U.S. Army Corps of Engineers to complete an iFIX SCADA Upgrade/ Migration for Gate Control of six (6) Locks and Dams on the Monongahela River in West Virginia and Pennsylvania. (Opekiska, Point Marion, Hildebrand, Morgantown, Maxwell, and Charleroi Locks and Dams)

- LATA upgraded and installed new SCADA-node PC’s with flat panel displays at all sites.
- Modified control panels to accommodate the change in control scheme.
- Allen-Bradley and Modicon PLC-based controls systems.
- Migration and Conversion of SCADA platforms to new version of GE Fanuc Proicy iFIX.
- Integrated all six Dams to be viewed and controlled from a single Dam or to be controlled locally depending on availability of Corps personnel.
- Upgraded communications platforms to tie into existing Corps District network.

LATA offers experience in multiple platforms:
- Work with Modicon Momentum M1E Processors
- Work with GE Fanuc iFIX
- Obtaining communications between remote panels
- Work at the Mon River Locks & Dams
- Work for the Army Corps of Engineers—Pittsburgh Dist.
Why select LATA?

LATA is a full-service environmental and electrical resource with best-in-class expertise in specialty process automation, environmental management and remediation:

- For over 40 years, we have self-performed a broad range of complex studies, designs, facility management, and remediation at widely dispersed sites (notably industrial and radiologically contaminated sites).
- We have broad based in-house engineering, science and construction professionals.
- We have worked for a broad range of government and industrial clients including international clients.
- Our environmental and safety record is exemplary.
- LATA is a leader in implementing remotely operated groundwater and other treatment systems.
- We are a Qualified Small Business under NAICS Codes 562910, 541710, 335313, and 335314.

PUTTING LATA TO WORK FOR YOU

LATA System Operation and Maintenance Services

- LATA provides O&M services as a natural extension of systems where we performed the original design or I&C services. These services can also include system sampling, permitting (NPDES), and reporting if required.
- LATA also provides O&M services for systems designed by others and draws on our design engineers, I&C group and seasoned technicians to perform system optimization.
- Our system optimizations typically yield a pay out of labor savings for the hardware investment in less than 2 years.