Automation **IT**

COMPANY PROFILE

ABOUT US

Automation IT is a customer focused control system engineering company specialising in PLC, SCADA, RTU, automation, control, telemetry, electrical engineering, functional safety, IT & OT networking and energy management systems. The business was incorporated in 2000 and is 100% Australian owned and operated, with our Head office located at Springwood in the Brisbane- Gold Coast corridor, with our western branch in Perth, Western Australia.

From modern purpose fitted out premises, the company employs a team of experienced and professional engineers who have provided industrial software solutions from the factory floor to the resource planning and management levels of large organisations throughout Australia.

As a systems integration company, we specialise in control systems engineering and real-time software development for a diverse range of hardware platforms. We have recognised systems integration relationships with the major PLC, SCADA, RTU, telemetry and network vendors. Our trained engineering and network professionals offer custom product solutions across multiple industries including mining, defence, water & waste-water, transportation, infrastructure, power & energy, food & beverage, manufacturing, robotics & motion control and electric vehicle (EV) charging solutions.

As an electrical engineering company, Automation IT provides electrical design services to tightly integrate both the electrical infrastructure and control system to ensure the entire electrical system and associated processes function as intended. Automation IT also provide TUV functional safety services including machinery risk assessments & audits, PL & SIL assignments, HAZOP/CHAZOP involvement along with safety PLC systems.

Automation IT provides all facets of control system engineering services from project management and conceptual design right the way through to final site commissioning. In addition to this, Automation IT provides a dedicated 24x7 support service.

Automation IT's customer commitment and professional attitude has been recognised with multiple achievements and awards over the years such as nominations to IE Aust for Engineering Excellence, highest QLD sales and Integration partner of the year. Automation IT employs multiple Registered Professional Engineers of Queensland (RPEQ) along with TUV Rheinland (Machinery) Certified Functional Safety Engineers, ensuring our customers are informed and meet their obligations within the engineering legislation framework and that our engineering services and solutions offer the best protection for our clients' projects.

Safety Management
ISO 45001:2018

Automation IT has a Safety Management System, Third Party certified to ISO 45001:2018. The company workplace health and safety policy is based on its conviction that the well-being of our employees is the major consideration in all operations.

Quality Management
ISO 9001:2015

Automation IT operates a Quality Management System, Third Party certified to ISO 9001:2015. We are committed to providing customer satisfaction with the highest quality of goods and services.

Environmental Management
ISO 14001:2015

Automation IT has an Environmental Management System, Third Party certified to ISO 14001:2015. We consider that responsible environment management is an essential part of achieving business objectives.

Risk Management
ISO 31000:2018

Automation IT has a Risk Management System, Third Party certified to ISO 31000:2018. Our risk management processes and procedures ensure every project is undertaken with risk mitigation as a priority.

Certification

Automation IT has numerous Government certifications including being a QAssure Accredited ICT Supplier, Building & Asset Services (BAS) Registration and an approved supplier for Localbuy.

Insurance

Automation IT provides extensive insurance coverage for loss or damage in areas such as Public Liability, Professional Indemnity and Work Cover.

Professional Engineering Accreditation

In line with the Queensland Professional Engineers Act 2002 (The Act), all of our electrical and control system engineering services are performed, or directly supervised by, a Registered Professional Engineer of Queensland (RPEQ). Automation IT also employs engineers on the National Engineering Register.

Resources

The Automation IT team is composed of highly experienced degree qualified engineers with extensive knowledge of all the major PLC, SCADA, RTU, telemetry and network platforms with experience across multiple industries Australia wide. We also have multiple RPEQ's and TUV Functional Safety engineers in-house.

SERVICES

We provide all facets of electrical and control system engineering services from project management and conceptual design right through to final site commissioning.

Engineering Services

- PLC Engineering
- SCADA Engineering
- RTU & Telemetry Networks & Engineering
- IT, OT & IIoT Network Engineering
- Substation Automation Systems (SAS)
- Power Control & Monitoring Systems (PCMS)
- Control System Design
- Feasibility Studies
- Project Management & Design
- Electrical Engineering
- Robotics & Motion Control
- Reverse Engineering & Machine Upgrades
- Audits & Investigations

Functional Safety Services

- TUV Rheinland Certified Engineers
- Safety PLC & Control Systems
- Risk Assessment To ISO 12100, AS4024, IEC62061, ISO13849, IEC61508, IEC61511
- HAZOP/CHAZOP
- SIL & PL Calculations
- Machine Functional Safety Verification & Validation

Energy Management

- Power Quality & kWh Meters
- Head End Servers
- Networking Hardware
- Communication & Pulse Gateways
- EMS & AMR Software
- Power Quality Analysis
- Energy Alarms & Notifications
- CO2 Emission Calculations
- Power & Energy Reports
- Private Metering & Billing
- WAGES
- PV, Solar & Wind Farm Integration
- Electric Vehicle (EV) Charging

Professional Certification Services

- Power System Study & Topology
- Fault Levels & Short Circuit
- Protection Coordination & Load Flow
- Maximum Demand & Voltage Drop Calculations
- Earth Fault Loop Impedance
- Touch & Step Potential Calculations
- Arc Flash Studies

Automation IT provides a dedicated 24/7 support service including:

- Telephone support
- Remote dial-in support
- Site support

POWER & ENERGY

Automation IT has extensive experience in the design, implementation and maintenance of critical power system and energy infrastructure throughout Australia. Automation IT's experience in the power and energy industry covers all aspects of control and automation, from large distribution transformers, high voltage switchgear, turbines, generator systems, network control systems, lubrication systems and storage, renewable energy power stations, ports and mines through to critical infrastructure such as airports, hospitals, prisons and data centres.

- Engine & Turbine Automation
- Cooling Control
- Oil Lube Systems & Purification
- Fuel Regulation
- Generator Load Control
- Auxiliary Control Sequencing
- Power Transformers
- Voltage Regulation
- Control System Audits
- Remote Site Support

MINING & MINERALS

Automation IT's experience in the mining industry covers all aspects of control and automation, including drag lines, conveyors, CHPP's, stacker/reclaimers, automated fuel farms, telemetry, train load out, power stations, change management and water treatment infrastructure. Automation IT has extensive experience designing and implementing control systems and electrical upgrades while maintaining overall plant operation.

- Production Monitoring
- Oil Lubrication
- Conveyor Systems
- Process Water
- Fuel Farms
- SAG Mills
- Crushing Plants
- Draglines
- Shovels
- Longwalls
- Shiploaders
- Product Stackers/ Reclaimers
- ROM (Run Of Mine)
- Coal Preparation Plants

DEFENCE

Automation IT has been involved in key defence infrastructure projects designed to improve the reliability and security of Australia's defence forces and associated bases. Automation IT has extensive experience designing and implementing Power Control and Monitoring Systems (PCMS), Generator Control Systems (GCS), High Voltage (HV) & reticulation control, Substation Automation Systems (SAS) and mission critical systems.

- Power Control & Monitoring Systems (PCMS)
- HV & LV Network & Reticulation Control
- Engine & Turbine Automation
- Cooling Control
- Standby Power Plants
- Generator Control Systems (GCS)
- Runway Lighting
- Load Shedding
- Jet Engine Control & Monitoring
- Co-Generation
- Fire Water & Suppression Systems
- Reverse Osmosis Plants
- Substation Automation Systems (SAS)

"Automation IT conducted themselves very professionally which was very evident in the work performed for us. Well done and many thanks again."
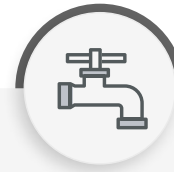
TRANSPORTATION

Automation IT has extensive experience with both rail freight lines and public transportation systems having worked on numerous projects throughout Australia and internationally including PLC & SCADA systems for rail tunnels, subways, train stations (surface and underground), rail HV fault location detection, locomotive telemetry, rail track facilities, ore car repair workshops, bus-bays and associated refuelling systems, robotic car parking systems along with Electric Vehicle (EV) charging infrastructure.

- Infrastructure Monitoring SCADA
- Underground & Tunnel Ventilation Systems
- Engine & Turbine Automation
- Cooling Control
- Oil Lube Systems & Purification
- Fuel Regulation
- Generator Load Control

- Wireless Ethernet & Telemetry Networks
- Power Network Control
- Auxiliary Control Sequencing
- Power Transformers
- Voltage Regulation
- Control System Audits
- Remote Site Support
- Energy Monitoring

WATER & WASTE WATER

Automation IT has been involved in the development of key infrastructure projects designed to improve water re-use and has the control system knowledge and experience to assist with all types of water & waste-water treatment, pumping and re-use. Automation IT has extensive experience designing and implementing control systems and electrical upgrades while maintaining overall plant operation.

- Inlet Works
- Aeration
- Clarifiers
- Digesters
- Bioreactors
- Membrane Filtration
- Lime Dosing Systems
- UV Disinfection
- Filtration
- Reverse Osmosis
- MCC & Control Cubicle Design
- PH Control

- Chemical Dosing
- Local & Remote Pump Stations
- Irrigation Controls
- Mine Process & Potable Water
- Raw Fire Water
- Transfer Control
- Bore Fields
- Co-Generation
- Advanced Water Processing Plants

TELEMETRY & RTU NETWORKS

Automation IT has extensive experience in the design, supply and implementation of telemetry systems and RTU networks, from small point-to-point systems to extensive wide area networks spread across remote regions including pump & outstations, water and wastewater treatment plants, water reservoirs, mine sites, bore fields, radio backbones, repeater stations, DMZ's, firewalls, DNP3 and cellular communication.

- RTU Hardware & Configuration
- Cellular Networks (3G/4G/5G)
- RTU Panels & Cubicles
- Radio Telemetry Design

- Remote Site Monitoring
- Radio Surveys
- Telemetry Networks
- Bore Fields
- Solar Farms
- Wind Farms
- Weather Stations

FOOD & BEVERAGE

Automation IT provides a wide range of control systems and automated solutions for food and beverage applications such as abattoirs, smallgoods factories, beverage plants and packaging lines utilising batching, sorting and temperature control.

- Cold Storage
- Hot Water Baths
- Temperature Control
- Cooking Lines
- Food Manufacture & Smallgoods

- Packaging Lines
- Meat Processing
- Batch Processing
- Clean in Place (CIP)

MANUFACTURING

Automation IT provides control system support and solutions for local and national manufacturers including glaziers, pulp and paper mills, sheet metal manufacturers, sugar and timber mills, oil, gas and fuel management plants, winding machines and steel mills. Automation IT specialise in the upgrade and replacement of obsolete and/or proprietary control systems that are not supported locally, examples include legacy or out of date systems and/or package plants which are imported from overseas that do not comply with Australian standards, regulations or laws.

- Stepper Motor Control
- Weighing Stations
- MCC Cubicle Design & Supply
- Packaging Lines
- Custom Machine Controls
- Winding Machines
- Load Cell Tension or Weighing Systems

- Recipe Driven Control
- Motion Control Using Servo Drives & Encoders
- Production Interfaces to Company ERP Systems
- Human Machine Interface (HMI) Stations
- Machinery Risk Assessments & Safety Audits

ENERGY MANAGEMENT

Automation IT has extensive experience in the design and implementation of Automated Meter Reading (AMR) and Energy Management Systems (EMS) which cover domestic, commercial, industrial and utility infrastructure including museums, art galleries, court houses, hospitals, hotels, apartment complexes, high-rises and sports stadiums. We also provide a wide range of products and services that cover the renewable energy sectors including microgrids, biogas, hydrogen, wind, solar, co-generation and Electric Vehicle (EV) charging infrastructure.

- Energy Monitoring Hardware: Power Quality Meters, kWh Meters, Head End Servers, Networking Hardware, Communication Gateways
- EMS Software
- Power Quality Analysis
- Energy Alarms & Notifications

- CO2 Emission Calculations
- Power & Energy Reports kWh Monitoring
- Billing
- NABERS Reporting
- Private Metering
- WAGES
- EV Charging
- Microgrids

> **"With tight deadlines, Automation IT made the resources available to ensure the project could be completed within our required time frame. We will definitely continue to use them for future work."**

REGULATORY COMPLIANCE SERVICES

As required by the Queensland Professional Engineers Act 2002 (The Act), all of our electrical and control system engineering services are performed, or directly supervised by, a Registered Professional Engineer of Queensland (RPEQ). Automation IT employs multiple RPEQ's along with TUV Rheinland (Machinery) Certified Functional Safety Engineers, ensuring our customers are informed and meet their obligations within the engineering legislation framework and that our engineering services and solutions offer the best protection for our clients' projects.

- RPEQ Engineering Services
- RPEQ Design Verification
- TUV Functional Safety (FS) Audits
- Functional Safety Management Plan/s

- Functional Safety Verification Plans
- Functional Safety Certification
- PLC/Safety Relay Engineering
- CAT/PL/SIL Validation

PARTNERS

Industrial Radio Networking
4RF radios are specifically designed for the mission-critical environment, ruggedized, temperature rated, advanced security and engineered for automation networks and mobility
Automation Group Partner for 4RF

Remote Telemetry Units
Powerful RTU and PLC universal controllers for the water, rail and electricity industries. Flexibility and performance in both control and communication
Automation Group Partner for Brodersen

Industrial Control & Automation
Cisco is a leading provider of networking hardware and IP based telephony systems. Cisco is also a global provider of specialist software solutions and is consistently ranked as one of the world's leading networking companies
Registered Partner of Cisco

Industrial Automation & Control
Emerson (formerly GE Fanuc / GE-IP) is an experienced high-performance technology company and a global provider of software, control system hardware solutions and embedded systems
Emerson / GE System Integrator and Solution Provider

Industrial Control & Automation
Omron is a world leader in automation and control systems with a broad capacity to provide systems and solutions using a diverse range of products and components
Omron System Integrator

Industrial Control & Automation
Rockwell Automation is a leading global provider of automation, power, control and information solutions that provide a competitive advantage via an extensive range of products
Rockwell Automation System Integrator

Industrial Control & Automation, Energy Management, Critical Power Systems
Schneider Electric are the global specialists in control, automation and energy management and have a comprehensive range of products and services for the industrial, energy, infrastructure and building markets
Schneider Electric Certified Alliance System Integrator and Critical Power EcoXpert

Automation Technology
Siemens is the world's single-source leader of automation technology products engineered and manufactured for all industrial sectors
Siemens Certified Solution Partner

Generator Control Systems
Woodward controllers enhance the performance of industrial gas and steam turbines, reciprocating engines, compressors, wind turbines, electrical grids and other energy related industrial equipment.
Woodward System Integrator

AUTOMATION IT ACHIEVEMENTS

Year	Achievement
2021	Siemens • Advanced Factory Automation & Industrial Communications Certification
2020	Emerson (formerly GE Fanuc / GE-IP) • Industrial Automation & Control System Integrator • Solution Provider
2019	Schneider Electric EcoXpert Award • Optus Stadium Perth - Best Critical Power Project for 2017 – 2018 Siemens Certified Solution Partner
2017	Schneider Electric Certified Alliance Partner • Control System • HMI/SCADA • Telemetry
2016	Schneider Electric PlantStruxure Certified Omron System Integrator Schneider EcoXpert Partner Auvesy Partner Woodward System Integrator
2015	Schneider Electric Integration Partner of the Year 2014 Local Buy Accredited Supplier
2014	MDT Software Registered System Integrator Schneider Electric Integration Partner of the Year 2013 Cisco Registered Partner
2013	PACE Zenith Awards Finalist (Best Fieldbus Implementation) Schneider Electric Rolling Thunder Award (Customer Service & Quality)
2011	Schneider Electric Outstanding Customer Support Award
2009	Control Microsystems ClearSCADA – SCADA Partner Plus Citect QLD CIP of the Year – Innovation Award 2009
2008	Citect Strongest Sales Growth QLD
2007	Matrikon Systems Integrator Citect Ampla Partner Citect QLD Channel Integration Partner of the Year
2006	Rockwell Systems Integrator
2005	Citect Special Recognition Award Schneider Electric Systems Integrator Hirschmann Certified Engineers
2004	Citect QLD Channel Integration Partner of the Year GOLD Citect Channel Integration Partner
2003	IEAust Engineering Excellence Awards – Nominations for Noosa WWTP
2001	SILVER Citect Channel Integration Partner
2000	Allen-Bradley Systems Integrators with AB Distributors, A-P Controls GE Fanuc Queensland CARE Agreement (Control & Automation Resource Experts)

KEY PROJECTS

<$1,000,000

Public Transport Authority (PTA) METRONET
Forrestfield-Airport Link (FAL) Tunnel and Station SCADA
Stadium Station, East Perth Station & Mandurah Carpark

Optus Stadium Perth
Standby Power/Energy Monitoring

The Star Group
The Star Casino & Hotel Gold Coast Standby Power/Energy
Monitoring

Next DC
NEXT DC Data Centre Standby Power System

Queensland Corrective Services
Gatton Prison Standby Power/Energy Monitoring
Sewage Treatment Plant

Queensland Health
Cairns Base Hospital Standby Power/Energy Monitoring

Cassowary Coast Regional Council
Innisfail Waste Water Treatment Plant

Rio Tinto
Weipa Town Water RTU Borefield Automation

Cummins (Bovis Lend Lease)
Brisbane Airport Standby Power
Queensland Cultural Centre Standby Power

Queensland Courts
Brisbane Supreme Court Standby Power/Energy Monitoring

BMA
Dragline Improvements

Wesfarmers (Curragh Mine)
Borefields & Process Water

>$1,000,000

Logan City Council (Logan Water)
Waste Water Treatment Plants
Loganholme – Beenleigh – Cedar Grove

Department of Defence
HMAS Stirling PCMS, SAS and GCS

Queensland Health
Gold Coast University Hospital Network Control System
Cairns Base Hospital Standby Power/Energy Monitoring
PA Hospital Translational Research Institute

Western Downs Regional Council
Telemetry and RTU Upgrade, Multiple Stages

UnityWater – SCADA Outstation Upgrade
Telemetry and RTU Upgrade, 245 Remote Sites

Energy Resources of Australia
Ranger Power Station Brine Concentrator Project

Various Smaller Projects

ABB - Power Transformer Manufacturing, Servo and High Speed
Machinery Controls

Amcor - Various Control System Upgrades and Support

Anglo Coal - Substations, Ventilation Control, Conveyors, Change
Management Software

Brisbane Airport Corporation - Generator controls, HV network
controls, Queuing Guidance

BMA - Draglines, Shovels, Process Improvement, Change
Management Software, Training

Lion Nathan - Change Management Software

Degremont - Noosa Waste Water Treatment Plant

Landfill Management Services (LMS) - Cogeneration Plants

Northern Territory Power & Water - Power Station Control
System Upgrades

Peabody (North Goonyella Mine) - Control Network Upgrade

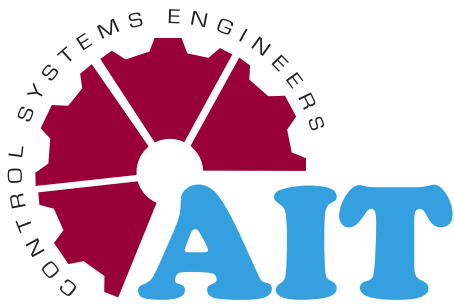**QLD Mines Rescue** - Jet Engine Monitoring & Control

QLD Urban Utilities - Various Water Treatment Plant Upgrades

Rio Tinto - Power Station Generator Control Upgrade, Diesel
Tank Farms, Borefields

Sanitarium Health Foods - Control System Upgrades

BHP Mooka Rail Ore Car Repair Shop - NPI PLC & SCADA
Control System

Aurizon Train Rail Telemetry System - HV Network Fault
Locator Project

Automation **IT**

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Insurance & Certifications

Professional Liability Insurance:	$10M AUD
Public Liability Insurance:	$20M AUD
Contract Works Insurance:	Project value
Workers Compensation	
Vehicle Insurance	
Localbuy Certification	
Quadrem eMarketplace Vendor	

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