

CONTROL SYSTEMS & AUTOMATION FOR MINING

Whether your mine is still at conceptual phase or you are looking to extend the life and improve performance of an existing plant, or anywhere in-between, Welcon Technologies has the expertise and experienced personnel to assist with all your Control Systems & Automation needs.

PLC & SCADA SYSTEMS

Does your mine process require consistent, reliable control and an accurate functional interface for operators? Welcon can produce PLC, HMI and SCADA solutions that deliver functionally and reliability that fits within your budget. Services include:

- System Structure and Network Design
- Functional Specification
- PLC & Control Panel Design & Supply
- Programming & Configuration
- Procurement & Installation
- Testing & Commissioning
- Ongoing Support

INDUSTRIAL NETWORKING

Can you afford downtime or reduced productivity due to unreliable communications and connectivity? Welcon can help choose the right technology for your application and design a reliable robust network.

- Ethernet Networks - Routing, Firewalls, VPNs, VLANs, Wireless Point to Point, Wireless Mesh, Integration with Corporate Networks.
- Industrial Networks - DeviceNet, ControlNet, Profibus, Serial Links etc.

TELEMETRY SYSTEMS



To monitor and control your processes and equipment over a wide geographic area, Welcon can provide a solution using radio links, Cellular/PSTN phone networks, Internet/VPN links or a combination of these technologies.



LEGACY SYSTEMS

Are your critical mine processes controlled by older or obsolete PLC and SCADA systems? Welcon has an extensive knowledge of many legacy systems and can assist you to move forward by:

- Auditing and documenting your systems.
- Identifying major risks and cost consequences.
- Strategic planning of upgrades or replacements to minimise your costs, downtime and risk.
- Converting programs and configurations across PLC and SCADA platforms.

MES & REPORTING SYSTEMS

How are you utilising the vast quantities of real-time and historical process data being collected by your mine's control system? Let Welcon help you convert this maze of data into useful, timely information for decision making and business optimisations. Possible scenarios include:

- Downtime Analysis
- Predictive maintenance
- KPI and OEE Calculations
- Shift Reporting

INDEPENDENT EXPERTISE

Welcon Technologies is proudly vendor independent. We will provide or recommend the best solution to meet your needs, based on your criteria.

We have particular expertise with the Rockwell Automation family of products and software.



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