



delonix
SOLUTIONS

CAPABILITY STATEMENT

ELECTRICAL, INSTRUMENTATION AND CONTROLS ENGINEERING

Delonix Solutions combines integrated EPCM and EPC capabilities with multi-disciplinary expertise to deliver integrated electrical, instrumentation and controls (EIC) engineering solutions that drive efficiency, safety and innovation across the mining, resources and heavy industry sectors.

From concept through to commissioning, our in-house EIC team supports clients at every stage of the project lifecycle – ensuring seamless design, smart integration and fully compliant delivery.

We've earned the trust of leading industry players like Pilbara Minerals, Northern Star Resources, Lynas Corporation, First Quantum Minerals, BHP and CBH, by combining deep technical expertise with a collaborative, solutions-focused approach.



ELECTRICAL, INSTRUMENTATION AND CONTROLS ENGINEERING SERVICES

ELECTRICAL DESIGN

We offer scoping level to detailed design services for high voltage (HV), low voltage (LV) and extra-low voltage (ELV) electrical systems. This includes comprehensive calculations, datasheets, specifications and tender documentation. Our electrical studies encompass load flow analysis, fault level assessment, arc flash studies, motor starting analysis, earthing and lightning risk evaluations, functional safety design, protection device settings and grading.

INSTRUMENTATION DESIGN AND SELECTION

We provide expert input into P&ID design for the optimal selection of instruments tailored to process conditions. This includes developing datasheets with contributions from process engineers and liaising with instrument vendors to secure competitive and technically compliant solutions.

CONTROL SYSTEM INTEGRATION

We specialise in the design and commissioning of fit-for-purpose PLC, SCADA and telemetry systems for equipment and plant control. Our services include developing functional specifications, programming and testing, including Factory Acceptance Testing (FAT). Additionally, we manage site integration and commissioning of network, PLC and SCADA upgrades, and provide operator training.

FUNCTIONAL SAFETY

Design and testing of safety systems to all relevant Australian and international Standards, from safety of machinery through to process and full life cycle safety system management. We offer the following essential services to ensure your safety system is designed, built, evaluated and maintained correctly:

- Risk assessments
- Development of a full suite of life cycle documentation for your safety system
- Safety system validations and proof testing
- Safety system software development



EIC DRAFTING

Our drafting services include 3D modelling as required, electrical and instrumentation layouts, general arrangements, schematics, terminations, loop drawings and network block diagrams.

PRODUCTS

Delonix Solutions can offer solutions from custom electronic circuits performing specific applications to larger engineered offerings such as control panels, PLC & SCADA solutions, LV and HV switchgear.

PARTNER WITH DELONIX SOLUTIONS

Discover how our integrated EPCM and EPC capabilities deliver on time, on budget and beyond expectations. For more information, please contact our Business Development Manager, **Fil Resnik**.

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