BEETLE ENGINEERING & AUTOMATION - CAPABILITY STATEMENT

About Us

Beetle Engineering & Automation Pty Ltd, based in Mackay, QLD, is a leading provider of Electrical Engineering and Automation solutions. With over 20 years of experience, our team, led by Dennis Murphy, specialises in delivering high-quality services across a range of sectors including manufacturing, mining, sugar milling, water utilities, ports, and materials handling.

Our Expertise

- **RPEQ Electrical Engineering Services:** Offering advanced knowledge and implementation for Electrical Industrial Control Systems.
- **Operational Technology (OT) Systems:** Extensive experience in auditing, documenting, designing, fault-finding, and commissioning operational technology systems.
- **Information Technology (IT) Systems:** Broad understanding of systems administration including virtualization, domain control, server infrastructure, web, and application interfaces.
- **Industrial Internet of Things (IoT) Systems:** Knowledge and understanding of secure integration of Internet of Things devices into IT/OT systems, on-premise and online hosted systems.
- **Comprehensive Network Architecture Planning, Audits, Obsolescence and Cybersecurity Measures:** To protect your critical infrastructure, including expertise in configuring, documenting and reports for Industrial Networks and Protocols for IT, OT, & IoT Systems.
- **PLC System Design, Programming, and Troubleshooting:** Ensuring your systems operate efficiently and reliably, with a deep understanding of PLC & Protocol conversion hardware.
- **SCADA System Design and Implementation:** Tailored to meet the unique needs of your operations, with proficiency in programming and SCADA software from Rockwell, Schneider, Aveva, GE/Emerson, and more.
- **Industrial Networking:** Expertise in configuring, documenting, setup and fault finding of Industrial Networks and Protocols for IT, OT, & IoT Systems.
- **Software Proficiency:** Skilled in a wide range of programming and SCADA software for vendors including Rockwell, Schneider, Aveva, GE/Emerson, Redlion, Beckhoff, and more.
- **Hardware Knowledge:** Thorough knowledge of PLC & Protocol conversion hardware, networking equipment, and various types of Information Technology equipment.
- **Project Management:** Proven track record in leading projects from conception to completion.
- **Continuous Improvement Strategies and Modernisation Solutions:** To keep your facilities up to date with the latest technologies, ensuring long-term efficiency and reliability.

Key Services

- **Industrial Control Systems Audits:** Meticulous attention to detail and documentation for new and retired Industrial Control Systems hardware.
- **PLC, HMI, & SCADA Programming:** Customised solutions for process and industrial control systems.
- **System Commissioning:** Comprehensive testing and validation of control systems.
- **Client Consultation:** Collaborative approach in developing implementation, optimization, and changeover strategies.
- **Documentation & Training:** Providing detailed manuals and operational guides.

Commitment to Excellence

At Beetle Engineering & Automation Pty Ltd, we are dedicated to delivering solutions that enhance efficiency and safety. Our commitment to keeping informed of the latest technological advancements ensures we provide our clients with the most effective and innovative solutions.

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