

COVER LETTER

ADAM STRONG: Electronics Professional

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With more than 20 years in mining, rail, commercial, and farming sectors, I've handled industrial control systems, telecommunications, and reliability-centred maintenance. My resume outlines my experience.

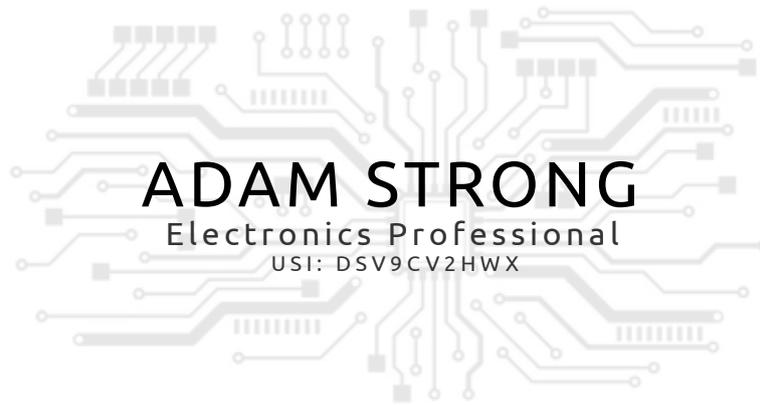
In my roles at companies like Aurizon Rail and Thies, I repaired and re-engineered industrial control systems from ASEA and Siemens, applied reliability tools like Root Cause Analysis and Failure Mode Effects Analysis, and developed maintenance programs that reduced failures. At Minetec, I managed sales and provided technical support for collision avoidance and radio systems. Earlier positions involved installing fibre optics, radio networks, and telemetry in remote sites.

I am skilled in Linux servers, software design, and full-stack development for custom systems, such as real-time mapping and solar telemetry. These experiences have helped me ensure reliable operations with minimal downtime.

I am eager to bring my practical knowledge to your team. I would welcome the chance to discuss how I can contribute. Thank you for considering my application.

Sincerely,

Adam Strong



ADAM STRONG

Electronics Professional

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CONTACT

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SKILLS

- ~ Electronic:
 - Repair
 - Schematic Design
 - PCB Layout
 - Analog & Digital
 - Micro-controllers
- ~ IT & Programming:
 - Linux Servers
 - PHP & MySQL
 - HTML & CSS3
 - Java Script
 - Pro Web Apps
- ~ Automotive Electrical:
 - Install Accessories
 - Diagnose & Repair
 - Scan tool
 - Charge testing
 - Wire diagrams
 - Servicing
- ~ Security
 - Communications
 - CIT Management
 - Develop Procedures
 - Deescalate
 - First Aid
- ~ Operate
 - EWP
 - High Risk Licensed
- ~ RCM
 - Root Cause Analysis
 - Life Cycle Costing
 - Reliability Diagrams
 - Failure Analysis

PROFILE SUMMARY

Seasoned Electronics and Electrical Technician with extensive experience in the mining, rail, and ports industries.

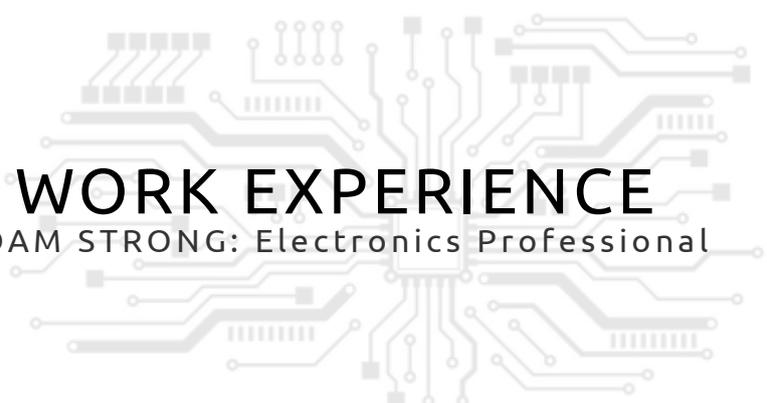
Specialised in designing, repairing, and maintaining industrial control systems, data telecommunications, fibre optics, radio systems, and voice/data networks.

Proficient in Linux server administration, software design, and electronics engineering, with a strong focus on reliability-centred maintenance to ensure optimal performance and minimal downtime for critical infrastructure.

Proven track record in troubleshooting complex issues and implementing innovative solutions to enhance operational efficiency and safety.

EDUCATION

- ~ Electronics Technician Diploma
Thompson Education
- ~ Certificate in Information & Technology
New England Institute of TAFE
- ~ Cert III Telecommunications
Conquest Communication Consultants
- ~ Electronics Diploma
Penn Foster Career School
- ~ Cert III Automotive Electrical Technology
Intech institute of technology
- ~ Cert II in Rail Infrastructure
TAFE Queensland
- ~ Cert III in Security Operations
BARS Training
- ~ Drug & Alcohol Testing
DRUG Testing Institute
- ~ Licence EWP
LD Training
- ~ Advanced First Aid
St Johns Training
- ~ Reliability Centred Maintenance
ARMS Reliability



WORK EXPERIENCE

ADAM STRONG: Electronics Professional

Electronics and Electrical Technician

LAN MAT Communication, Goondiwindi, QLD

2000 – 2002

- Installed, configured, and programmed TV antenna systems (MATV) and PABX systems for reliable communication infrastructure.
- Implemented Cat 5 and fibre optic networking solutions in state schools across Goondiwindi and Bogabilla, ensuring seamless data connectivity and system performance.
- Conducted troubleshooting, repairs, and maintenance on telecommunications equipment to minimise downtime and support educational operations.

Electronics and Electrical Technician

Border TRC, Goondiwindi, QLD

2002 – 2004

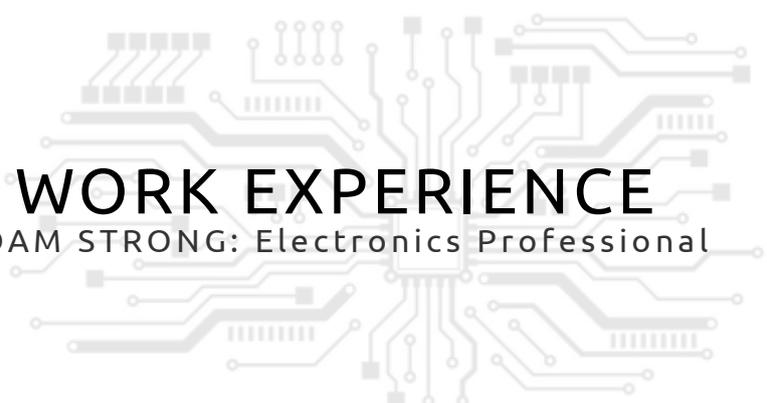
- Rigged and installed communication masts up to 30.5 metres, ensuring structural integrity and compliance with safety standards for optimal signal coverage in rural areas.
- Performed bench repairs on radios, including diagnostics, component replacement, and testing to restore functionality and reliability.
- Installed and configured radio systems on machinery and farming equipment, along with auto tractor kits, satellite phones, private radios, analog and digital CDMA car kits, VAST satellite TV systems, and FMS electronics kits.
- Conducted repairs and maintenance on TV antennas, minimising service disruptions and enhancing reception quality for clients in remote locations.

Electronics and Electrical Technician

G&D Communications, Moranbah, QLD

2004 – 2007

- Designed and deployed 2-way radio repeaters and multi-coupling systems, including site surveys, installation, and commissioning for enhanced communication reliability in mining environments.
- Conducted bench repairs on Motorola 2-way radios, diagnosing faults, replacing components, and performing functional tests to ensure compliance with industry standards.
- Developed and implemented custom radio alarm systems tailored to operational needs, integrating sensors and alerts for improved safety and monitoring.
- Installed electronics accessories, radios, and telemetry FMS systems in mining machinery, optimising integration for efficient data transmission and equipment performance.



WORK EXPERIENCE

ADAM STRONG: Electronics Professional

Electronics and Electrical Technician

RCS Radio Communications Solutions, QLD

2007 – 2011

- Served as bench repair technician, diagnosing and repairing a range of electronics communications equipment including Tait, Motorola, GME, ICOM, and RFI systems to restore functionality and meet operational standards.
- Tuned multi-coupling equipment for optimal performance, ensuring efficient signal distribution and minimal interference in communication networks.
- Conducted field work at Clermont Coal and Hail Creek sites, performing on-site installations, troubleshooting, and maintenance of radio communications systems to support mining operations and enhance safety protocols.

Senior Electronics Technician / Sales Manager

Minetec, Mackay, QLD

2011 – 2015

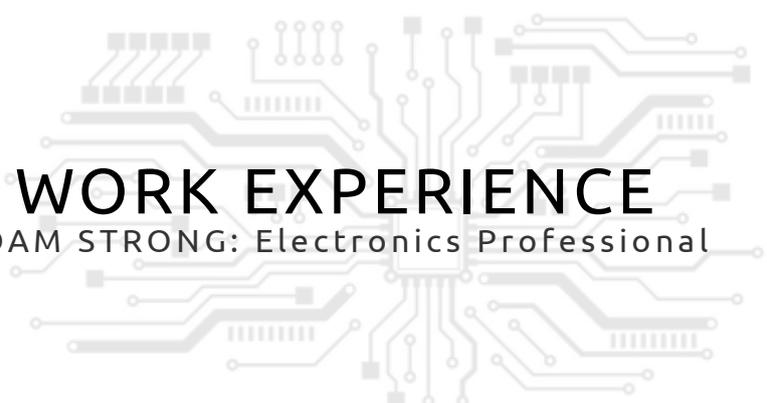
- Served as the most senior person at the branch, overseeing day-to-day management, team coordination, and operational efficiency to support mining communications solutions.
- Sales Manager for the East Coast of Australia, driving business development, client relationships, and revenue growth through strategic sales initiatives.
- Attended industry conferences and sales meetings to network, stay updated on emerging technologies, and represent the company in promoting collision avoidance systems, radio systems, and custom network solutions.
- Provided expert knowledge and remote fault-finding support to field teams for Minetec's proprietary collision avoidance systems, radio communications, and other custom network and electronics systems under maintenance contracts, ensuring minimal downtime and enhanced system reliability.

Electronics and Electrical Technician

Thiess Rail Maintenance for Aurizon Rail, Bowen Basin, QLD

2015 – 2018

- Maintained rail communications infrastructure across the Bowen Basin, ensuring reliable operation and compliance with industry standards for critical transport networks.
- Serviced battery systems, Tier 1 and Tier 2 telecommunications networks, enterprise radio data links, and radio repeater networks, performing diagnostics, repairs, and preventive maintenance to minimise downtime and support seamless data transmission.
- Conducted routine inspections and troubleshooting on communications equipment, optimising performance and enhancing safety in high-demand rail environments.



WORK EXPERIENCE

ADAM STRONG: Electronics Professional

Industrial Electronics Reliability Technician

Aurizon Rail, Jilalan, QLD
2018 – 2021

- Repaired and re-engineered ASEA and Siemens industrial electronic control systems, enhancing functionality and extending equipment lifespan through targeted upgrades and fault resolution.
- Applied reliability concepts to break the reactive maintenance cycle, promoting proactive strategies that delivered benefits such as improved asset performance and cost efficiencies.
- Defined key reliability terms and provided comprehensive overviews of essential engineering tools, including Root Cause Analysis (RCA), Reliability-Centred Maintenance (RCM), Life Cycle Costing (LCC), Reliability Block Diagrams (RBD), Asset Criticality assessments, and Failure Mode Effects & Criticality Analysis (FMECA).
- Developed and implemented sustainable best-in-class maintenance and reliability programs, achieving significant reductions in equipment failures and operational cancellations while optimising system uptime in demanding rail environments.

Electronics and Electrical Technician

Thiess, Lake Vermont, QLD
2021 – 2023

- Upgraded telemetry trailers, camera trailers, and radio trailers, implementing enhancements to improve functionality, durability, and integration with mining operations.
- Maintained radio repeater systems, conducting regular inspections, troubleshooting, and repairs to ensure continuous coverage and minimal signal disruptions in dynamic mine environments.
- Developed a real-time mapping system from component level to server software (full stack), enabling accurate mapping and prediction of signal integrity as the mine progressed, thereby optimising communication reliability.
- Designed and implemented a full-stack solar telemetry system for remote sites, incorporating hardware and software solutions to provide sustainable, off-grid monitoring and data transmission capabilities.

Security Advisor / Manager

EOS Security
2023 – 2026

- Led security functions including patrols, surveillance system design and implementation, and mesh network design and implementation, ensuring robust protection and operational efficiency across various sites. Apprehended criminals and handed over to police.
- Designed and implemented an 82-premises in-ground fibre optic TV network for Bolton Clarke Breezes retirement village, from initial planning to deployment, enhancing resident connectivity and entertainment options.
- Worked on surveillance systems for schools and farming operations, including installation, configuration, and maintenance to improve security monitoring and deter potential threats in diverse environments.