

# Alcarail

WORKING TOGETHER FOR A BETTER FUTURE



Driving  
excellence in rail  
systems, design  
and delivery



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# Our Projects



## **Gippsland Line Upgrade Project**

Alcarail provides comprehensive services across the full project lifecycle, specialising in the delivery management of rail systems including signalling, OCS, MEP, communications, and train control subsystems. Our expertise spans program and engineering management, project engineering, stakeholder engagement, and system integration, supported by strong leadership and proven capability in testing & commissioning management.



## **IAT - Integrated Alliance Team**

Alcarail led the signalling and communications scope for the METRONET Victoria Park–Canning Level Crossing Removal Project, delivering design, principles testing, systems testing, and construction management. The works were completed collaboratively within the Integrated Alliance Team, ensuring seamless coordination with adjacent projects and successful outcomes for all stakeholders.



## **METRONET Victoria Park–Canning Level Crossing Removal Project - Armadale Line Upgrade Alliance (ALUA)**

Alcarail is successfully delivering the end-to-end signalling system and its associated sub-systems, providing comprehensive expertise across the full project lifecycle - from initial design through to final handover.



## **New Midland Station Project**

Alcarail delivered signalling design and principal testing for ARC Infrastructure Stage 3C and PTA Stages 5A and 5B on the METRONET New Midland Station Project. The final stage, due for completion in 2025, includes detailed signalling layouts, system integration, and end-to-end testing to ensure safe and reliable operations.



## **ETCS Project - Adelaide Metropolitan Passenger Rail Network**

Alcarail's team brings proven experience in Engineering Management, Project Management, System Assurance, and Systems Integration for ETCS, signalling, train control, and communications—gained through Australia's first ETCS passenger service deployment, delivered on time, within budget, and with minimal defects.



## **CBH**

In partnership with Mott MacDonald, Alcarail is delivering rail systems design services for CBH, which operates an extensive network transporting grain from WA's Wheatbelt to major ports. The project supports CBH's plans to expand rail and train loading infrastructure at key sites including Konnongorring, Meenaar, Perenjori, Dowerin, and Ballidu.

# Our Services



*We provide tailored, high-quality solutions that meet each client's needs throughout the project lifecycle*

## **Design & Engineering**

*Comprehensive signalling and rail systems design across the full project lifecycle, from early concept development to detailed design, integration, testing and as-built documents.*

*Disciplines: Conventional Signalling, ETCS L1/2, ATO, CBTC, Network and Comms Engineering, Control Systems and OHLE.*

## **Project Tendering & Advisory**

*Specialist expertise supporting complex rail projects from bid to delivery. We provide strategic guidance, assurance, and risk management to ensure integrated, compliant, and confident outcomes.*

## **Rail Systems Project Management & Delivery**

*Complete delivery and project management providing deep expertise in coordinating complex, multi-disciplinary systems, ensuring safe delivery, seamless integration, and reliable operational outcomes.*

## **Systems Engineering & Safety Assurance**

*Alcarail delivers standards-aligned solutions. Our services include: requirements definition and management, verification and validation, configuration and change management, system safety management, safety assurance and RAMS, hazard identification, human factors and cyber security.*

## **System Integration**

*We bring signalling, control, communications, power, and all rail subsystems together into one seamless, high-performing system. By managing interfaces, alignment, and end-to-end operability, we deliver integrated solutions that boost reliability, enhance safety, and maximise operational efficiency.*

## **Testing & Commissioning**

*Alcarail provides full testing and commissioning services, ensuring every system is safe, compliant, and ready for operation. Our accredited, specialised team manage the full T&C lifecycle from pre-testing, verification and functional testing to dynamic testing, commissioning, and final handover ensuring operational readiness.*

## **Through Life Support and Asset Management**

*Alcarail provides maintenance and asset support for signalling and rail systems. We combine proactive maintenance, fast fault response, and data-driven asset strategies to maximise uptime, extend asset life, and deliver long-term value across the rail network.*

## **AI Driven Rail Solutions**

*We are at the forefront of integrating AI-driven solutions in rail construction. Our advanced technologies revolutionise project efficiency and precision, setting new benchmarks in the industry.*

At Alcarail, our passion for delivering reliable, innovative rail systems solutions is matched only by our dedication to our clients.

We believe in building lasting partnerships through transparency, technical excellence, and a commitment to outcomes that truly make a difference. As we move forward, we remain focused on providing solutions that not only meet expectations - but exceed them.

**Marc Hamameh**  
CEO



**ALCARAIL**  
ENGINEERING AND  
MANAGEMENT SERVICES

