



ALCA AUTOMATION
ENGINEERING OUR FUTURE

CAPABILITY STATEMENT



About Us

Alca Automation is an Australian company founded from a shared passion for innovation and a deep commitment to safety.

We recognised the need for smarter, more adaptive solutions that not only improve operational efficiency but also enhance the safety and reliability of critical systems.

Our vision was to create a company that challenges conventional thinking—bringing together forward-looking technology, practical expertise, and a safety-first mindset to solve complex industry problems.

At our core, we believe innovation should create value for people and businesses alike—driving intelligent automation that leads to safer, smarter, and more sustainable outcomes for all.



Jay Nathella
Director



Syed Ghouse
Engineering Director



Dee Andruszkiewicz
National Business Manager



Lokesh Waran
Innovation Manager

Our Team

At Alca Automation, our culture is built on genuine connection, trust, and meaningful collaboration. We foster an environment where every voice is heard and valued, creating a sense of belonging that empowers our people to thrive. Inclusivity is at the heart of how we work—bringing together diverse perspectives to drive better ideas and stronger outcomes for everyone.



Our Vision

Our vision is to create a workplace where every team member feels a strong sense of belonging, and every client has complete confidence in our commitment to deliver on our promise—with integrity, reliability, and excellence.

Our Mission

Our mission is to provide innovative, safe, and reliable engineering and delivery solutions for complex challenges—leveraging AI-enhanced tools and processes to align with product and project requirements, boost operational performance, and minimise maintenance needs.





Differentiators

TECHNICAL EXCELLENCE

Our team is composed of industry experts who leverage the latest technologies to deliver superior solutions. We stay ahead of the curve by continuously updating our skills and tools.

EFFICIENCY

Our solutions are designed to streamline operations, reduce costs, and maximise efficiency. We help businesses achieve more with less, ensuring optimal performance and profitability.

DEEP BUSINESS UNDERSTANDING

We don't just provide technical solutions; we understand the unique challenges and goals of each business we work with. This allows us to tailor our services to meet specific needs and drive meaningful results.

GROWTH - FOCUSED

We partner with our clients to support their growth ambitions. Our solutions are scalable and adaptable, enabling businesses to expand and evolve without constraints.

INNOVATION DRIVEN

At Alca Automation, innovation is at the heart of everything we do. We constantly seek new ways to improve processes, enhance productivity, and create value for our clients.

CUSTOMER CENTRIC APPROACH

We prioritise our clients' needs and satisfaction. Our dedicated support and personalized service ensure that every client feels valued and understood.

Benefits

01

INCREASED OPERATIONAL EFFICIENCY

Intelligent automation streamlines repetitive and labour-intensive tasks. AI-driven systems optimise performance in real time, reducing waste and downtime.

02

GREATER RELIABILITY & PRECISION

Adaptive technologies continuously learn and improve, delivering consistent, high-quality outcomes. Predictive analytics and automation reduce errors and equipment failures.

03

FUTURE-PROOFING OPERATIONS

Scalable, forward-looking solutions help businesses stay competitive in rapidly evolving markets. Flexibility to adapt to new challenges and integrate with emerging technologies.

04

ENHANCED SAFETY

Robotics and AI reduce human exposure to hazardous environments. Systems are designed with a safety-first mindset, ensuring compliance with industry standards.

05

COST SAVINGS

Reduced manual intervention and downtime lower operational costs. Optimised resource use leads to more efficient spending and better ROI.

06

STRATEGIC INSIGHT & INNOVATION

Access to Alca's deep technical expertise and innovation-driven culture. Solutions are tailored to business goals, enabling smarter decision-making and continuous improvement.

Solutions

We take pride in our proven track record of successful projects and satisfied clients, which highlights our ability to deliver results. Our comprehensive solutions cover all aspects of automation and technology, from consultation to implementation and support, ensuring you have everything you need under one roof. We believe in fostering a collaborative partnership with our clients, where your ideas and feedback are always valued. Quality is non-negotiable for us, and we adhere to the highest standards in every project we undertake. With our future-ready solutions, we ensure that your business remains competitive in an ever-changing landscape. We're here to support your journey every step of the way

GRAVITY AGENT - AI Tech Solutions for Rail Construction

Revolutionary AI-powered solutions for rail construction projects, enhancing safety, efficiency, and precision in railway infrastructure development.

Key Benefits

- Enhanced construction safety and risk management
- Improved project timeline accuracy and efficiency
- Real-time quality control and monitoring



Alca-Bot

Alca-Bot is a versatile AI-powered solution with a wide range of applications, one of its standout uses being train cleaning. Designed to adapt to various fleet types and stabling facilities, it's well-suited for both passenger and freight operations.

Proven across Australia, Alca-Bot delivers fast, consistent cleaning of train exteriors, windows, and interiors. Its seamless integration into depot workflows reduces water and chemical consumption while meeting the highest safety and environmental standards.

More than a product, Alca-Bot is a solution – adaptable, scalable, and built for the future of rail maintenance.



Track Slab Construction

Automation of material deliveries

A cutting-edge robotic solutions for track slab construction and track laying, transforming how rail infrastructure is built.

Our advanced robotic systems streamline the entire process, from precise slab positioning to efficient rail placement, ensuring unmatched accuracy, safety, and productivity. By automating traditionally labour-intensive tasks, we reduce project timelines, minimise human error, and create safer worksites.

Alca Automation's track slab and track laying systems set a new benchmark for efficiency and innovation in modern rail construction.



Other Solutions



Generative AI

Cutting-edge generative AI solutions that transform data into insights, automate workflows, and drive innovation across your business.

Key Benefits

- Streamlined workflows and enhanced efficiency
- AI-driven insights and predictive modeling
- Personalized user experiences



IoT Solutions

Advanced IoT development and integration services that transform everyday products into intelligent, connected devices for enhanced efficiency.

Key Benefits

- Scalable solutions for future growth
- Robust security framework
- Real-time analytics and monitoring



Video Analytics

Advanced video analytics solutions that convert surveillance feeds into actionable insights for security and business intelligence.

Key Benefits

- Enhanced security and surveillance
- Reduced operational costs
- Automated access control

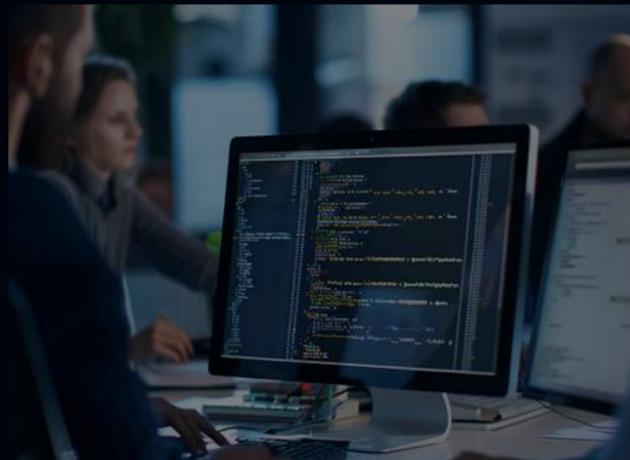


UI/UX Design

Intuitive and visually compelling user interfaces that enhance engagement and digital interactions.

Key Benefits

- Superior user experience
- Increased user engagement
- Stronger brand presence



Web Development

Custom web applications and responsive websites that enhance business operations and user engagement.

Key Benefits

- Strong online presence and brand visibility
- Custom-tailored web solutions
- Unique and scalable design



Mobile App Development

Custom mobile applications for iOS and Android that enhance business growth and user engagement.

Key Benefits

- Enhanced brand visibility and accessibility
- Improved customer engagement and retention
- Valuable data-driven insights



Cybersecurity

Comprehensive cybersecurity solutions that protect your digital assets, safeguard sensitive data, and ensure business continuity.

Key Benefits

- Comprehensive protection against evolving cyber threats
- Reduced risk of data breaches and associated costs
- Regulatory compliance and risk management

We are passionate about delivering practical, intelligent AI solutions — we're here to provide the solutions that move you forward.



**Book a
demonstration**

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Thank You!



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