



E&T Intelligence

Empowered Mobility:

Transforming operations with flexible and efficient self-driving technology, featuring precise manipulation for enhanced productivity and safety in heavy industries.

Who we are



- **E&T Intelligence** is a technology company dedicated to revolutionizing heavy industries through AI-enabled self-driving and precision manipulation solutions. Our innovations enhance efficiency and safety across sectors such as metallurgy, construction, mining, and port operations.
- We can modify the existing vehicles into autonomous or remote control, provide software systems or the total solutions, depending on clients' needs.
- Our solutions can integrate to clients' business process seamlessly.

Vision

To be the global leader in innovative and sustainable self-driving and precision manipulation solutions, transforming heavy industry for a safer and more efficient future.

Mission

Empowering heavy industries and enhancing human potential with innovative AI-driven mobile manipulation systems, driving efficiency and adaptability for success in a dynamic global environment.

Milestones



HONG LEONG ASIA LTD

2020.12

Remote operation realized and deployed at a heavy transport truck

2023.6

Self-driving system was developed and deployed at heavy transport vehicles

2024.4

E&T Intelligence Singapore founded

2024.10

E&T Intelligence Singapore participated in Eureka innovation project in mining industry bilaterally supported by Türkiye and Singapore

2024.11

E&T Intelligence Singapore Become a qualified supplier of HONG LEONG ASIA LTD

2021.8

Visual slam technology, visual recognition tracking technology developed

2023.8

E&T Intelligence founded in Shanghai

Pure visual-based autonomous driving solution completed

2024.8

E&T Intelligence Singapore Signed MOU with Zonguldak University in Turkey



**ZONGULDAK
BÜLENT ECEVİT
UNIVERSITY**

2024.10

E&T Intelligence Became a qualified supplier of China Minmetals and MCC Baosteel



中冶宝钢技术服务有限公司
MCC BAOSTEEL TECHNOLOGY SERVICES CO.,LTD.

2024.11

E&T Intelligence Singapore Signed MOU with Ngee Ann Polytechnic



Core Technology



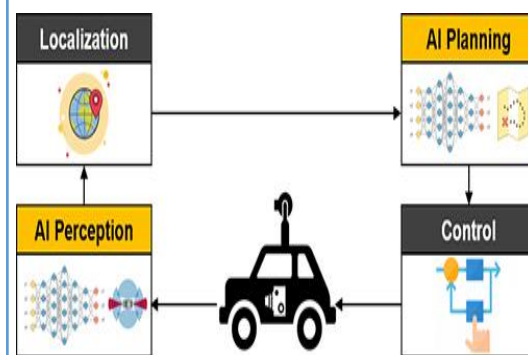
Self-Driving for Industrial Applications

At the forefront of low-speed self-driving technology, we focus on creating specialised solutions for non-open-road industrial applications, bringing our mobile manipulation systems to spaces where traditional vehicles can't go.



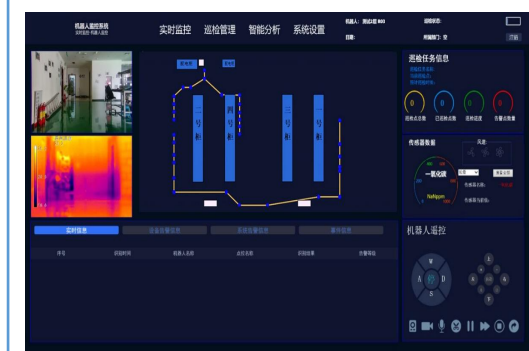
Tele-operation of Vehicles and Robots

Leveraging advanced remote driving technology, our system enables control room operators to manage vehicles and robots through real-time onboard camera feeds, allowing for timely remote intervention that enhances safety and boosts productivity.



AI-Driven Perception and Control

Advanced algorithms enable sophisticated understanding of and interaction with the environment. Deployment of AI at the edge ensures immediate response and decision-making, as well as enhanced data security.



Management of Vehicles and Robots

We offer a comprehensive remote management solution tailored to your specific application needs. It enables real-time fleet dispatching and monitoring, high-precision map updates, and data analysis.

Business Architecture

Application
scenarios

Metallurgy

Construction

Mining

Port

...

Products

**Self-driving
system**

**Tele-operation
system**

**Simulated
driving system**

...

Technologies

Route plan

HD map

Remote control

Self-driving

Intelligent sensing

**visual recognition
tracking**

**Reinforcement
learning**

Video splicing

Cloud platform

Intelligent scheduling

BEV fusion

...

Capabilities and Customization

- **Flexible Solutions**

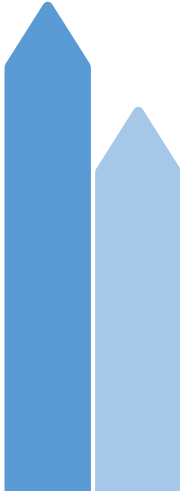
Ready to deliver fully autonomous and remote driving capabilities.

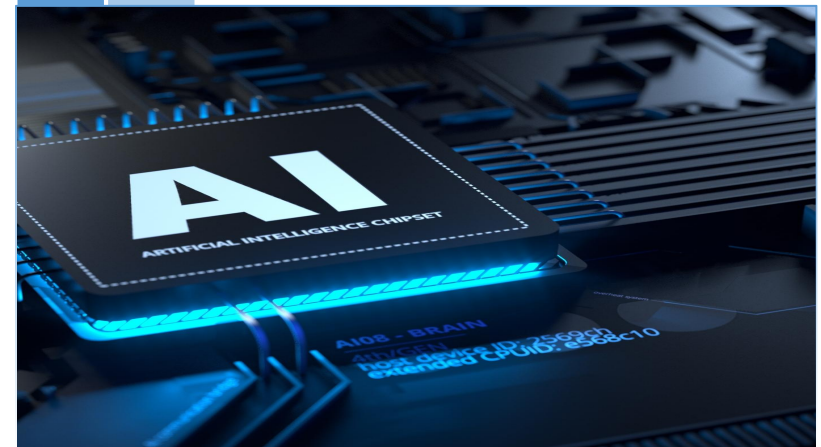
- **Vehicle Compatibility**

Supports electric, hybrid, and ICE vehicles

- **Customization**

Offers tailored vehicle designs and manipulation mechanisms based on client needs

- 
- Improve efficiency
 - Improve the safety of operations



Case 1: Remote driving of copper smelting charging truck

We implemented and deployed remote driving system at Copper smelting charging truck in **Jiangxi Province, China.**



Video

Case 1: Remote driving of copper smelting charging truck

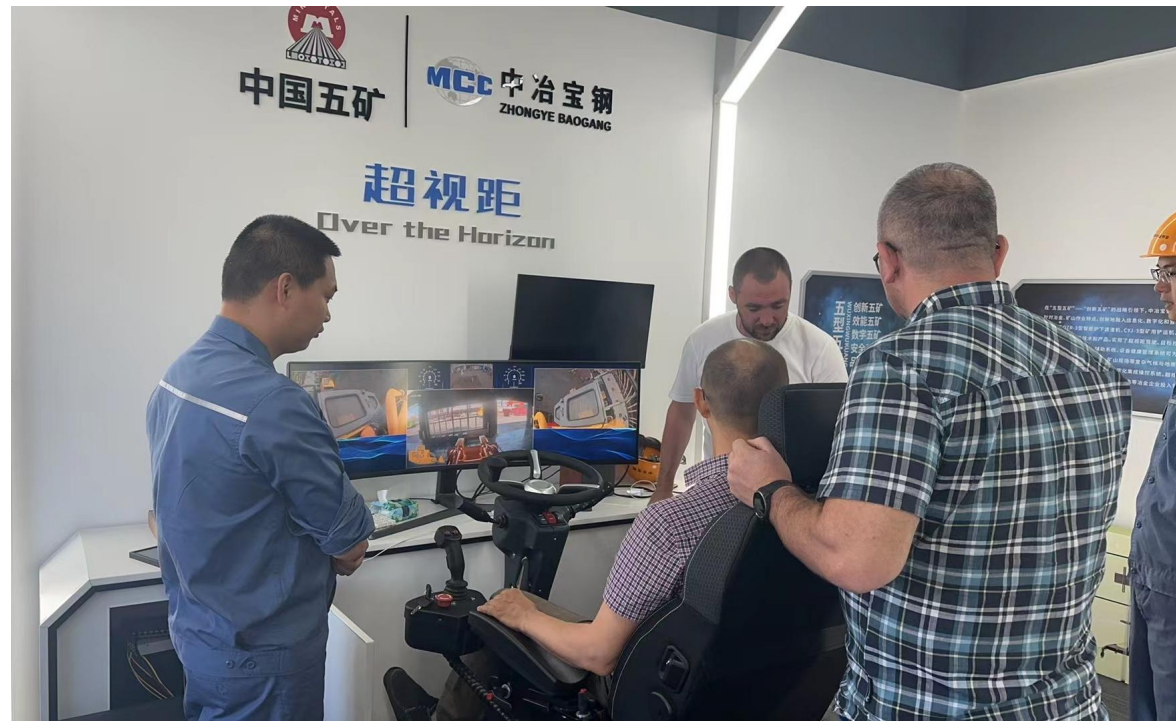
We implemented and deployed remote driving system at Copper smelting charging truck in **Jiangxi Province, China.**



Video

Case 2: Remote driving of heavy Forklift

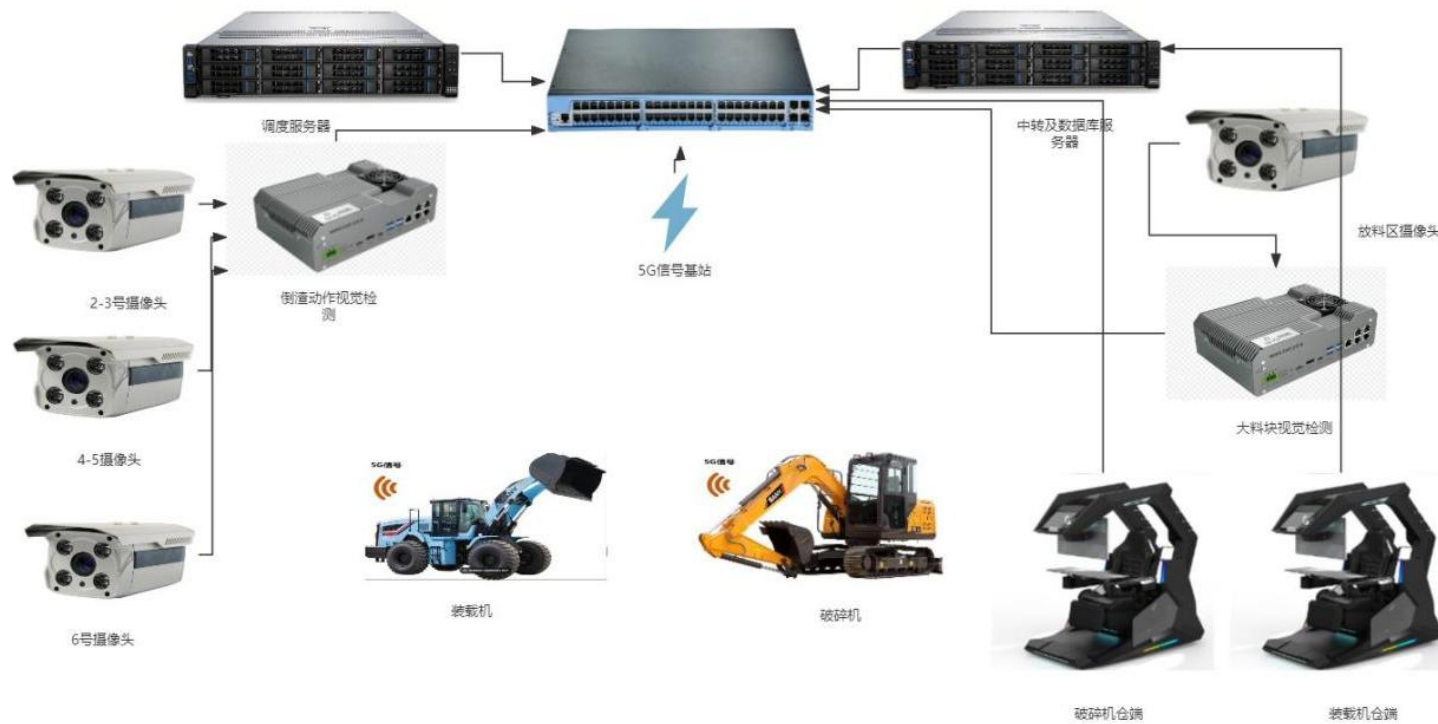
We are deploying a remote driving system in a heavy forklift with an 18-ton payload in a steel smelting plant in **Yekaterinburg Russia**.



Video

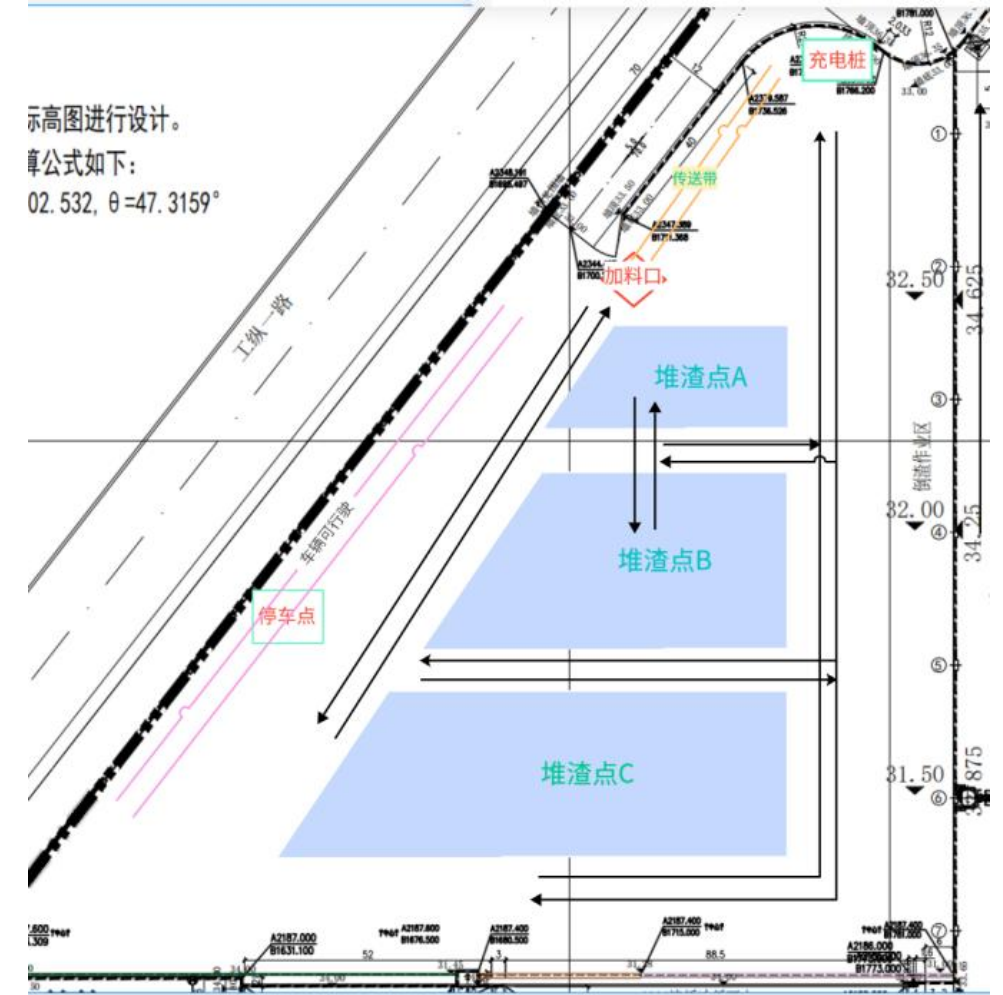
Case 3: Autonomous Front Wheel Loaders (AFWLs) and Remote controlled excavator in Copper Smelting Plant

We are deploying **4 electric AFWLs** and **1 remote controlled excavator** in a copper smelting plant.



Case 3: Autonomous Front Wheel Loaders (AFWLs) and Remote controlled excavator in Copper Smelting Plant

The excavator breaks the raw materials into small pieces, and then the AFWLs transport them to the target location.



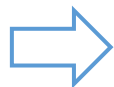
Case 4: Autonomous Front Wheel Loaders (AFWLs)

We will deploy a diesel-powered AFWL and an electric AFWL in **Singapore**.

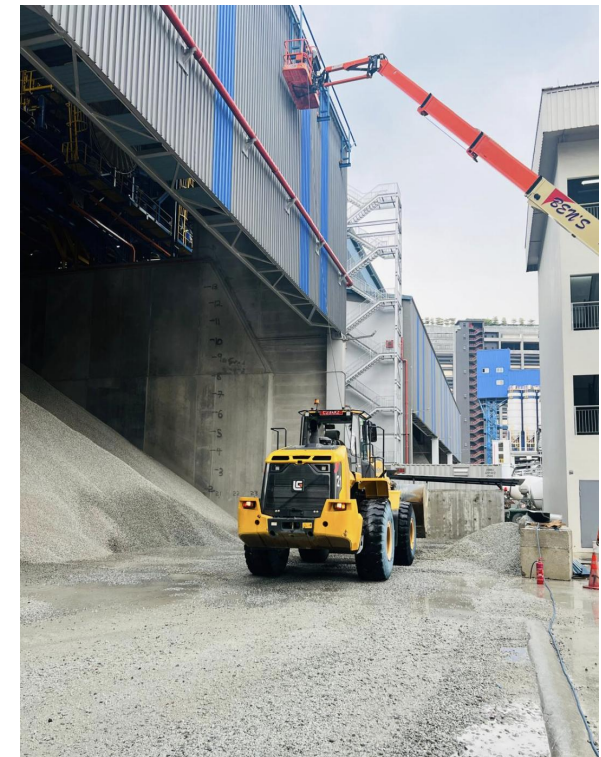
Develop and deploy autonomous front wheel loaders (AFWLs) to transport raw materials (aggregate) from stockyard bunker to conveyor belts, filling silo materials hopper ***round the clock***.

- Leverage self-driving technology to ensure precision and efficiency in material handling
- Improve overall operational efficiency while maintaining high safety standards
- Support the factory's transition to a smart and green manufacturing facility
- **Reducing reliance on labor**

2 drivers during the daytime
1 driver during the nighttime



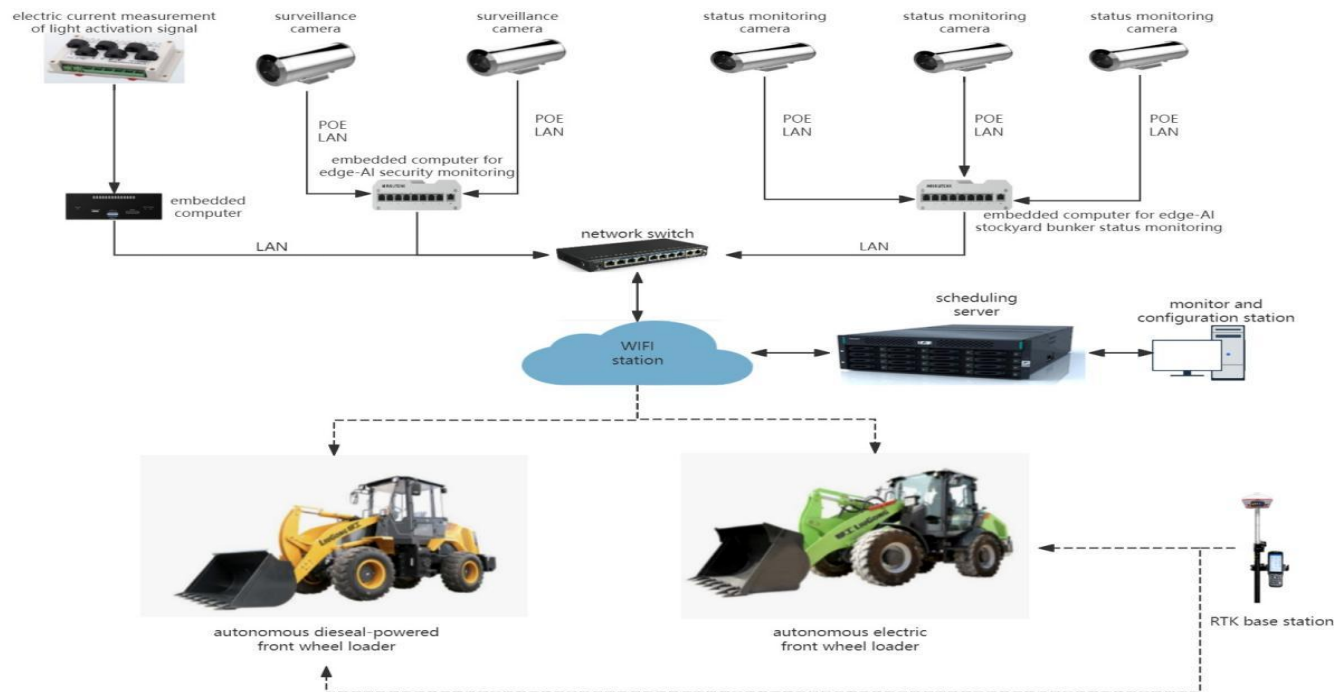
1 worker supervising the operation



Case 4: Autonomous Front Wheel Loaders (AFWLs)

Challenges of the AFWLs:

- Driving in Narrow-Space Environment
- Strong emphasis on maximizing productivity



Kinematics simulation

Autonomous mining, land reclamation, etc



Coordinated Operations of Multiple Unmanned Systems

Advanced
vehicle
intelligence

Vehicle-to-
Infrastructure
(V2I)
intelligence

Smart Fleet
Management

Coordinating
and
scheduling
different types
of vehicles

Planning
routes for
multiple
vehicles

Seamless
interaction
and teamwork
among them



Thank you.

We are ready to co-create innovation with you, ensuring seamless integration and support every step of the way.

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