

**ICS**  
INDUSTRIAL CONTROL SOLUTIONS

# INDUSTRIAL CONTROL SOLUTIONS LLC

*Driving Industrial Performance Through Automation and Innovation*

# Our team



## **Badraa Lkhagvaa**

**Co-founder / Automation engineer**

Over 15 years of experience in industrial and mining automation.

Specialized in DeltaV DCS, process control, and continuous improvement.

Previously led control system and optimization projects at Oyu Tolgoi (Mongolia) and Kennecott Utah Copper (USA).

Holds a degree in Automation of Technological Processes and Production from Ural State Mining University.



## **Ider Gerelsuren**

**Co-founder / Electrical & Automation engineer**

Over 8 years of experience in industrial automation, maintenance, asset management and occupational health and safety. Expert in MV/LV systems, PLC programming, instrumentation, and DeltaV control systems.

Holds a degree in Industrial Automation from Mongolian University of Science and Technology.

# Our team



**Tsogt Batjargal**  
**Data & Software Engineer**  
**(Remote)**

Experienced in developing and maintaining data pipelines and ETL processes.

Proficient in Python, SQL, and C#, with a strong foundation in data modeling, analytics, and visualization.

Skilled at integrating complex datasets and communicating insights effectively to technical and non-technical stakeholders.

Holds a degree in:

Microcontroller programming and interfacing  
from National University of Mongolia

Data Analytics from Toronto School of  
Management

Computer Programming from Niagara College

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# Company overview

**Industrial Control Solutions LLC** empowers mining and industrial organizations to unlock the full potential of their operations through world-class automation, process control, and digital transformation solutions.

We deliver measurable improvements in safety, efficiency, and productivity by turning operational challenges into opportunities for sustainable growth.

Our expertise lies in addressing the unique challenges of resource-limited environments — process inefficiencies, workforce constraints, and overlooked improvement areas — helping clients achieve measurable performance gains and cost reductions.

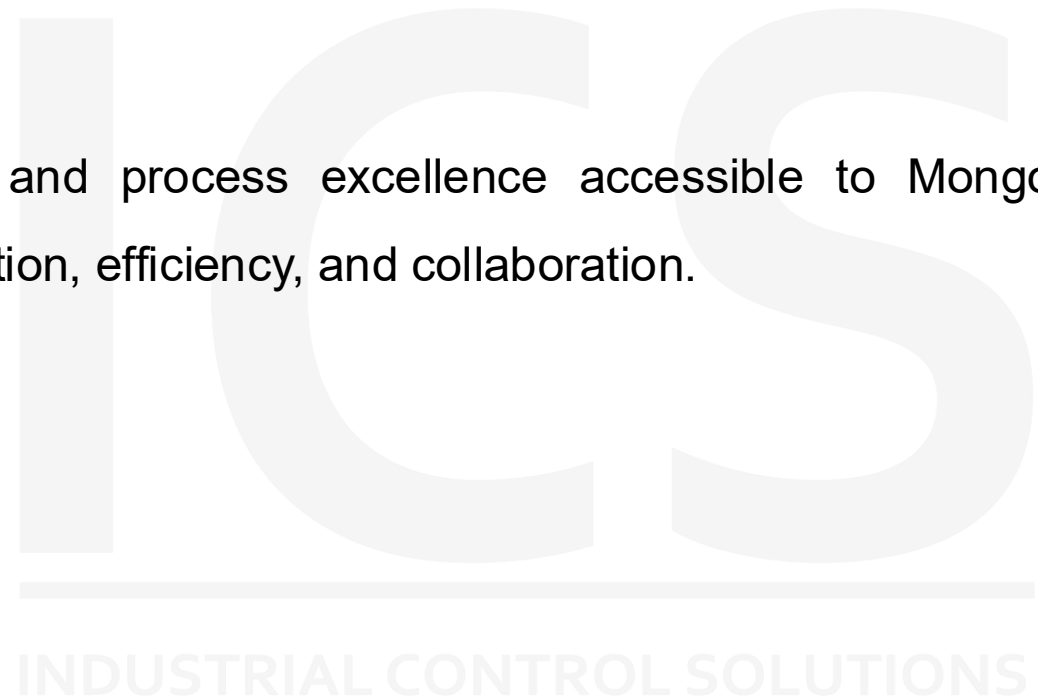
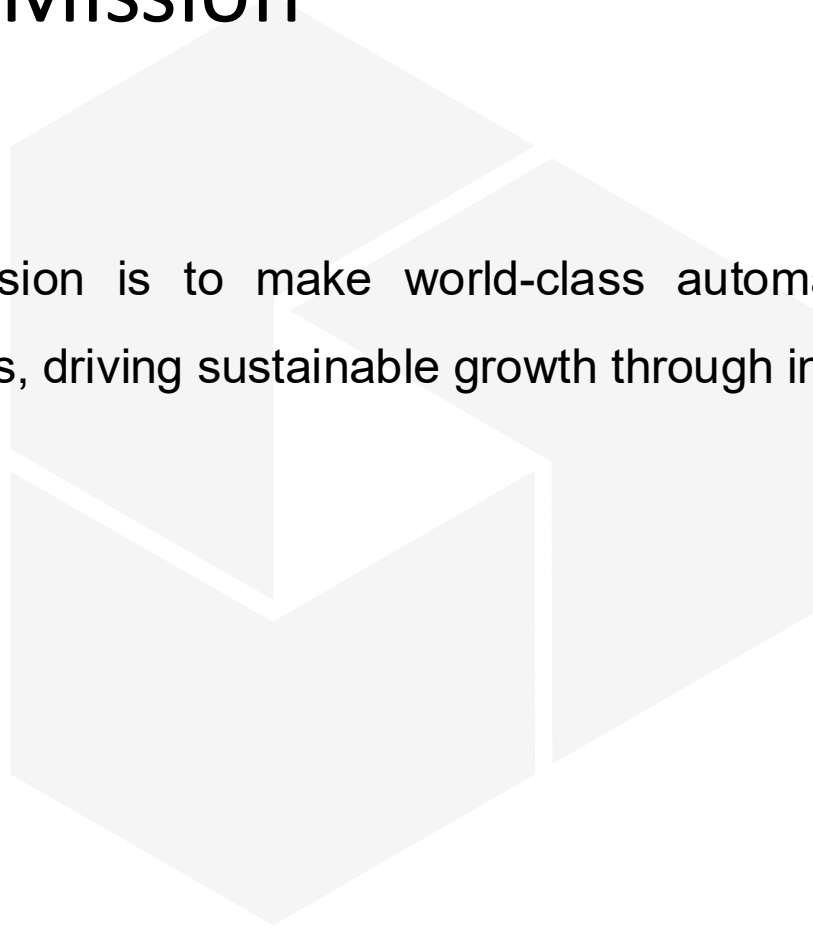
With over 16 years of hands-on experience in global mining and industrial operations, we combine **international best practices** with **local expertise**, ensuring rapid response, long-term support, and tangible results for our clients across Mongolia's industrial sector.





# Our Mission

Our mission is to make world-class automation and process excellence accessible to Mongolia's industries, driving sustainable growth through innovation, efficiency, and collaboration.



# Common Challenges in the Manufacturing Industry

- Control systems and instrumentation degrade over time, reducing performance and reliability.
- System tuning and calibration are often overlooked as processes evolve.
- Underperforming control systems are usually hidden and difficult to identify without expertise and data-driven analysis.
- Limited workforce and technical capacity often prevents companies from acting on key improvement opportunities
- These factors lead to control system underperformance and production losses.

## Solutions We Offer

- Control system and instrumentation assessment
- Control system improvement plan and optimization
- Production process control logic development
- International alarm management and HMI standard implementation
- PID controller tuning and process stability improvement
- Control narrative development and P&ID drawings
- Selection, calibration, and operation of instrumentation
- Digital KPI dashboard development
- Comprehensive long-term strategy development for digital transformation and automation

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## Our Approach

### 1. Discover

Conduct complementary assessments to identify automation and control system improvement opportunities.

### 2. Define Scope

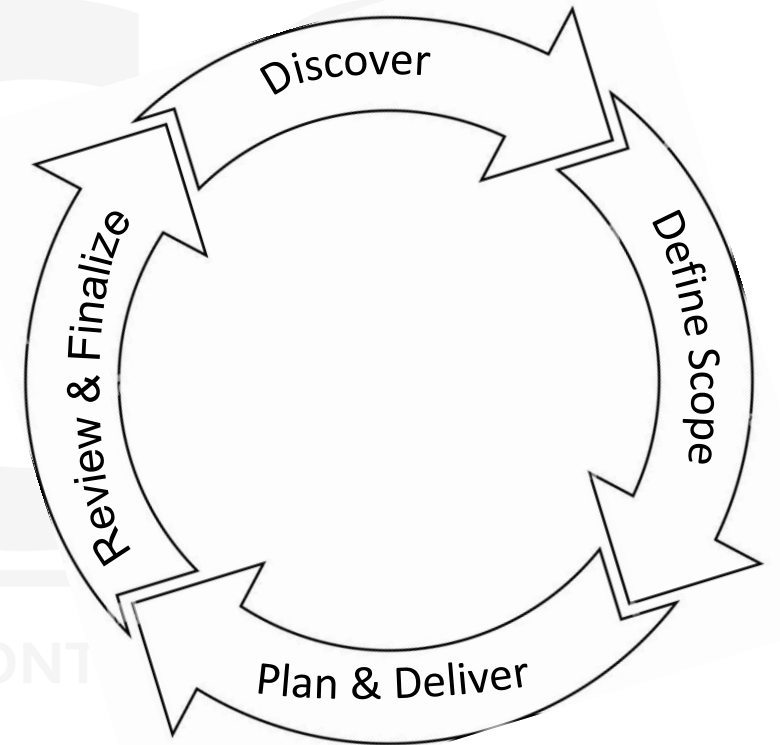
Specify, design, and document the project scope; provide a detailed business proposal

### 3. Plan & Deliver

Plan, develop, and review the solution in close collaboration with client teams. Test and implement the optimized control.

### 4. Review & Finalize

Conduct performance comparison (before/after), documentation, and knowledge transfer to client teams.





# Thank you



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