

Laboro AI Platform

Intelligent Construction Safety

Laboro AI combines real-time computer vision, automated alerts, and operational analytics to reduce risk, increase compliance, and protect construction workers. The platform continuously analyzes live camera feeds to detect PPE compliance, unsafe behaviors, and site hazards.

Stop guessing safety. Start preventing incidents.



Main Features



Real-Time PPE Detection

AI computer vision instantly detects helmets, vests, gloves, and other safety equipment compliance.



Safety Analytics Dashboard

Unified view of compliance rates, violations, site occupancy, and safety trends.



Multi-Site Monitoring

Scalable architecture supporting multiple construction sites and camera feeds simultaneously.



Automated Violation Alerts

Rule-based and ML-driven detection system with instant notifications and confidence scores.



Person Recognition & Tracking

Track worker presence, site occupancy, and access control for enhanced safety.



Complete Audit Trail

Full tracking of incidents, violations, and safety decisions for regulatory compliance.



Main Modules

1

Safety Dashboard

Centralized overview of key metrics: PPE compliance rates, active violations, site occupancy, and hourly safety trends.

2

Camera Feed Manager

Manage RTSP/HLS video sources, camera configurations, and monitor live detection streams.

3

Worker & Site Management

Track worker presence, site access, departure times, and occupancy levels across locations.

4

PPE Detection System

Automated AI detection of helmets, vests, gloves with confidence scores, visual indicators, and violation history.

5

Violation Analytics

Comprehensive analytics on safety trends, violation patterns, and site performance comparisons.

6

Live Camera Monitoring

Monitor multiple construction site cameras with live feeds, detection overlays, and recording capabilities.

7

Real-Time Alert System

Instant notifications with severity categorization, alert history, and direct incident review links.

8

Incident Review Queue

Manual verification interface for flagged violations, with decision tracking and supervisor assignment.



Target Industries



Construction Sites

Active building projects requiring continuous PPE and safety compliance monitoring



Infrastructure Projects

Roads, bridges, and large-scale infrastructure with high safety requirements



Industrial Facilities

Manufacturing plants and industrial sites with safety-critical operations



Oil & Gas Operations

Refineries and extraction sites needing strict safety protocol enforcement



Mining Operations

Mining sites requiring comprehensive worker safety and hazard detection



Facility Management

Property management companies overseeing construction and maintenance safety



Expected ROI

Laboro AI delivers measurable returns through:

40-60%

Incident Reduction

Fewer on-site accidents through early violation detection

30-50%

Insurance Cost Savings

Lower premiums and incident investigation costs

70-80%

Monitoring Efficiency

Automated safety monitoring vs. manual inspections

99%

Compliance Accuracy

Eliminates subjective human oversight gaps

Reduced

Regulatory Risk

Automated documentation for audits and compliance

Improved

Worker Safety Culture

Consistent enforcement builds safety awareness

 ROI within 2-4 months of deployment



Empowering Industry Through Intelligent Solutions

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Our Services



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Expert guidance for digital transformation.



AI Solutions

Advanced AI for efficiency and prediction.



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Autonomous AI for industrial process optimization.

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