



COMPANY PROFILE

LAST ONE

Smart Bus Entry & Exit Safety System

Ensuring no passenger is ever left behind.



Driver display | Product visualisation

Prepared for

**Potential
Collaboration with
Schools, Transport
Operators &
Organisations**

Founder & Inventor

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Partnership Profile | Pilot Deployment | Fleet Safety Collaboration

Company Overview

A Bahrain-developed safety innovation built to strengthen passenger accountability.

Last One is a smart bus safety technology venture founded by Mohamed Sharif in the Kingdom of Bahrain. The company has developed a working prototype that automatically counts passengers as they enter and exit a bus, continuously reconciles the total, and triggers a safety alert if anyone remains onboard at route completion.

The system is designed for school buses, daycare transport, special-needs transport, staff shuttles, and other passenger fleets where end-of-route clearance must be reliable, simple, and independent of human memory.

OUR PURPOSE

To help transport operators protect every passenger through automated, verifiable end-of-route clearance.

OUR VISION

To make zero-passenger verification a standard safety requirement across Bahrain and the wider GCC.

OUR APPROACH

Practical retrofit hardware, simple operation, local installation support, and measurable safety outcomes.

What Makes Last One Different

- Counts physical passenger movement rather than relying on cards, tags, apps, or manual attendance records.
- Operates locally without requiring continuous internet connectivity for the core safety function.
- Provides a live passenger count and clear SAFE / ALERT status to the driver.
- Performs a final zero-count verification before route closure and activates an audible and visual warning when there is a mismatch.
- Designed as a compact retrofit solution that can be installed on existing bus doors with minimal disruption.

The Safety Challenge

Manual checks remain vulnerable to distraction, fatigue, time pressure, and simple human error.

Why current procedures can fail

- A sleeping or quiet child may not be visible from the driver's seat.
- Reminder alarms still depend on a person completing the check correctly.
- Paper registers and app check-ins do not confirm physical presence inside the vehicle.
- A single missed check can create severe safety, legal, and reputational consequences.

The Last One principle

Safety should not depend only on memory.

The system verifies that every recorded entry is matched by an exit and clearly alerts the driver when the final count is not zero.



Designed for High-Responsibility Transport

SCHOOLS

Protect students and strengthen fleet-safety governance.

DAYCARE & SPECIAL NEEDS

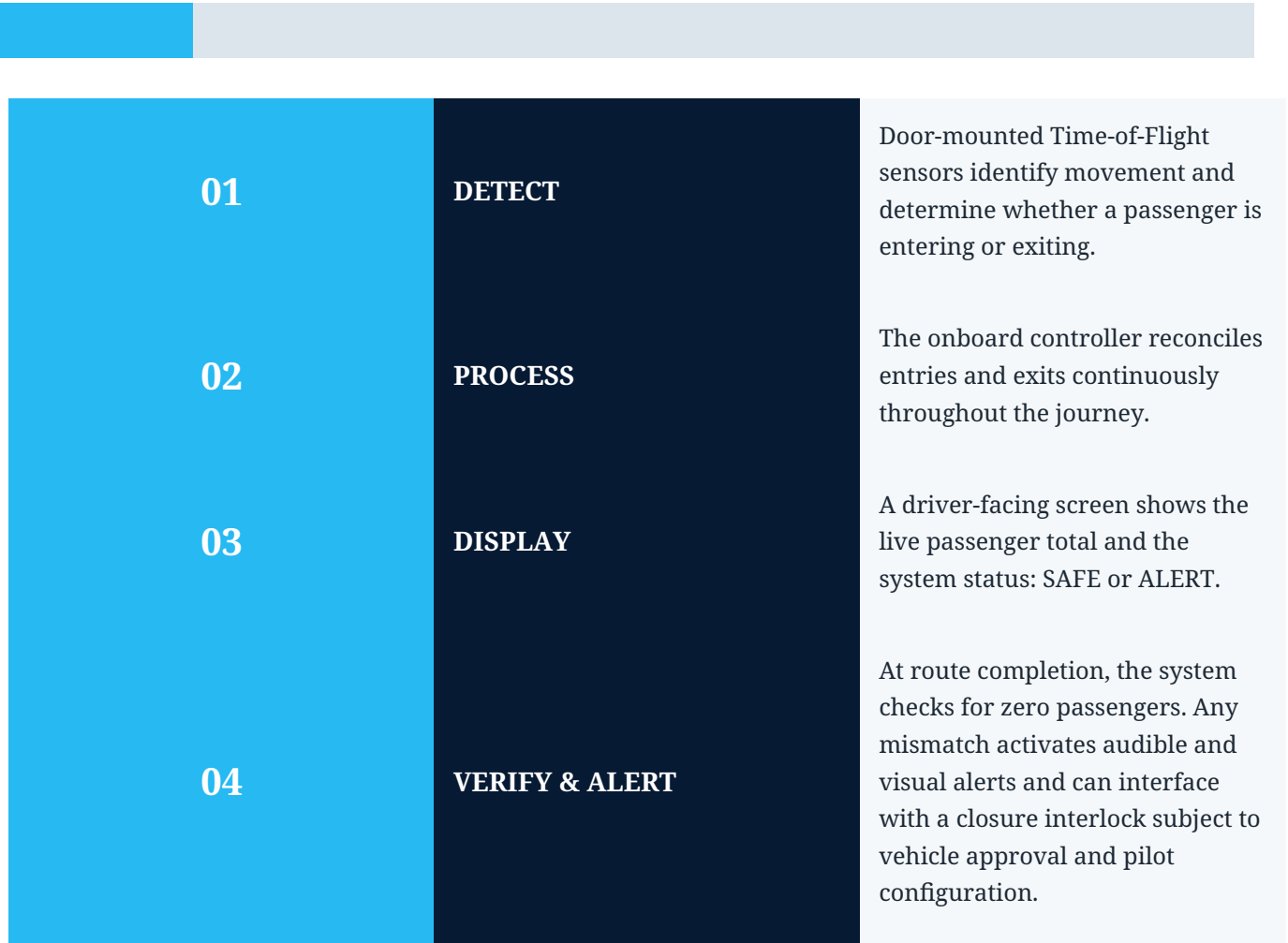
Support passengers who may be unable to alert the driver independently.

ORGANISATIONS & SHUTTLES

Improve accountability across staff, public, and contracted transport fleets.

The Last One Solution

Four automated stages replace an informal end-of-route check with a clear, repeatable verification process.



Product Design & Interface

A closer look at the passenger display and entry / exit sensor enclosure.



01 / PRODUCT DESIGN

Driver Display

A clear view of passenger activity throughout the journey.

- Live passenger total
- Separate entered and exited counts
- Driver-facing interface



02 / PRODUCT DESIGN

Sensor Enclosure

A compact enclosure design for the entry and exit sensing unit.

- Directional entry / exit symbols
- Protective housing concept
- Mounting subject to vehicle assessment

Product visualisations for presentation purposes. Final hardware, interface and mounting details may change following pilot validation.

Value to Your School or Organisation

A partnership is not simply a device installation - it is a structured improvement to passenger-safety assurance.

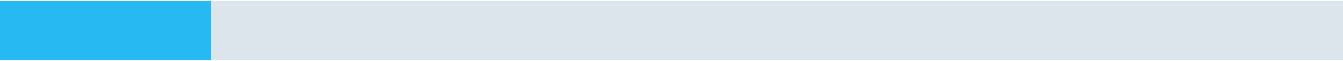
Stronger Child Safeguarding Adds an automated layer of protection at the exact point where manual checks can fail.	Clear Accountability Creates a consistent and repeatable end-of-route verification process for drivers and fleet supervisors.
Simple Daily Operation No cards, tags, phones, or passenger actions are required for core counting.	Low Infrastructure Burden Core safety functions operate locally and do not depend on continuous internet connectivity.
Fleet-Wide Visibility Optional reporting and review services can help management track incidents, maintenance, and compliance actions.	Reputation & Governance Demonstrates a proactive commitment to transport safety, risk reduction, and stakeholder confidence.

Suitable Collaboration Outcomes

- A limited pilot on selected buses to validate performance in real operating conditions.
- A school-wide or organisation-wide rollout following successful pilot evaluation.
- Joint safety awareness initiatives for drivers, attendants, parents, and transport stakeholders.
- Data-led refinement of installation, driver workflow, reporting, and maintenance arrangements.
- Potential strategic partnership for wider deployment across contracted fleets or affiliated institutions.

Products & Services

A complete service model covering deployment, support, training, and review.



01 Smart Bus Safety Device

Passenger entry/exit sensing, live count display, Safe/Alert status, and end-of-route warning logic.

02 Professional Installation

On-site fitting by a qualified electronics/IoT technician, subject to vehicle inspection and agreed installation plan.

03 Driver & Supervisor Training

Practical orientation on system operation, alert response, daily checks, and escalation procedures.

04 Preventive Maintenance

Scheduled inspection, cleaning, testing, firmware review, and repair support according to the selected service tier.

05 Management Reporting

Optional monthly summaries, incident logs, maintenance status, and fleet-safety review meetings.

06 Pilot Evaluation

Baseline assessment, agreed success criteria, monitored trial period, and end-of-pilot recommendations.

Proposed Partnership & Pilot Model

A controlled pilot allows both parties to evaluate the technology, operating process, and service requirements before broader deployment.

1. DISCOVERY

Confirm fleet size, bus types, operating routes, safeguarding requirements, and technical constraints.

2. SITE ASSESSMENT

Inspect selected buses and agree sensor placement, power connection, driver display location, and installation method.

3. PILOT INSTALLATION

Install the system on an agreed number of buses and conduct driver/supervisor training.

4. MONITORED OPERATION

Operate during an agreed trial period, record alerts and user feedback, and complete scheduled technical checks.

5. REVIEW & SCALE

Evaluate agreed success measures and prepare a recommendation for refinement, extension, or fleet-wide deployment.

Suggested Pilot Success Measures

- Accurate directional passenger counting under agreed loading conditions.
- Reliable Safe/Alert status at the end of each route.
- Driver understanding and correct response to alerts.
- System stability under normal heat, vibration, and daily fleet operation.
- Maintenance needs, installation practicality, and user feedback.
- A documented plan for any technical refinements before scale-up.

Indicative Service Packages

Final commercial terms will be tailored after fleet assessment, pilot scope, installation requirements, and service expectations are confirmed.

Package	Fleet Size	Monthly Fee*	Key Inclusions
Basic	1-5 buses	10 BHD	Installation, defect replacement support, WhatsApp support within 48 hours, and one orientation session.
Standard	6-15 buses	15 BHD	Installation, annual preventive maintenance, monthly report, 24-hour response target, and two training sessions per year.
Premium	16+ buses	20 BHD	Installation, semi-annual maintenance, priority response, dedicated contact, and quarterly fleet-safety review.

**Indicative pricing from the current feasibility model. Final pricing, taxes, installation complexity, replacement terms, contract length, and any custom reporting requirements will be confirmed in a formal proposal.*

Commercial Principles

- Recommended minimum agreement: 12 months, subject to final negotiation.
- Installation is included within the proposed subscription structure, subject to standard vehicle conditions.
- Service commitments focus on response and support; guaranteed replacement times require separate spare-stock arrangements.
- A pilot may be priced separately or credited toward a longer-term agreement, depending on scope.

Technology & Development Roadmap

The current prototype demonstrates the core sensing, processing, display, and alert functions. The next stage is structured road validation and product hardening.

CURRENT	Working prototype with ESP32 controller, Time-of-Flight sensors, live display, audible alert, and enclosure iterations.
PILOT STAGE	On-vehicle validation, installation refinement, heat/vibration testing, driver workflow testing, and failure-mode assessment.
PRODUCT HARDENING	Vehicle-grade components, improved enclosure, wiring protection, documented quality checks, and design-for-manufacture.
FUTURE OPTIONS	Fleet dashboard, alert logs, GPS integration, mobile notifications, and other enhancements following successful core-product validation.

Technical Design Principles

LOCAL CORE OPERATION The core safety function does not require persistent internet connectivity.	PRIVACY-CONSCIOUS The current design counts anonymous movements rather than capturing names or images.	RETROFIT FOCUS Designed to integrate with existing fleets, subject to vehicle-specific assessment and approvals.

Leadership & Delivery Team

Founder-led technical development supported by specialist advisory input.



MOHAMED SHARIF

Founder & Inventor

Founder Profile

Mohamed Sharif conceived, designed, built, and programmed the Last One system in Bahrain. He leads product design, firmware development, sourcing, prototyping, business development, and customer relationships.

Advisory Support

Salman AlMula - Software Development

Haroon AlMansoor - Technical Advisory

Hussain Ameer - Financial Advisory

Installation work is planned through qualified outsourced electronics/IoT technicians, with delivery capacity expanded as pilot demand grows.

Why Partner with Last One

An opportunity to help shape a locally developed safety solution while directly improving passenger protection.

EARLY ACCESS

Evaluate the solution before wider commercial rollout and influence the final product design.

LOCALLY DEVELOPED

Work directly with a Bahrain-based founder for rapid feedback, adaptation, and support.

MEASURABLE PILOT

Use agreed success criteria and a documented review process rather than relying on claims alone.

What We Are Seeking

- A school, transport operator, or organisation willing to host a controlled pilot.
- Access to relevant fleet-safety and operations stakeholders for technical and workflow assessment.
- Structured feedback from drivers, supervisors, safeguarding teams, and management.
- A pathway to wider deployment where pilot outcomes meet agreed requirements.
- Potential strategic introductions to education, transport, insurance, or regulatory stakeholders.

PROPOSED NEXT STEP

A 30-minute collaboration meeting with your transport, safeguarding, and operations representatives.

We will present the working prototype, discuss your fleet requirements, and agree whether a pilot is suitable.

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