

SILICON VALLEY
ENGINEERED  DESIGNED



LIFTIANS **WHITE PAPER**

2024

REVOLUTIONIZING WAREHOUSE AUTOMATION:

A Comprehensive Guide to Liftians'
Advanced Solutions & Services

www.liftians.com

Executive Summary

Liftians, headquartered in Silicon Valley, USA, leads the warehouse automation industry with comprehensive software and hardware customization. Our solutions deliver top-notch efficiency and ROI, exceeding industry benchmarks in robotic performance and returns. This white paper explores how Liftians' innovative technology is transforming the logistics landscape, providing powerful tools for warehouse operators to meet today's challenges and prepare for tomorrow's demands.

Key Points

- Comprehensive customization and rapid deployment
- Advanced robotic systems for optimal warehouse operations
- Proven success in reducing costs and increasing productivity
- Future vision for expanding capabilities and markets

A Brief Overview

Founded in 2016 in Silicon Valley, Liftians has quickly become a leader in warehouse automation. Our team of seasoned engineers and industry experts is dedicated to developing solutions that not only meet but exceed industry standards.

Key Highlights

- Fully customizable AMRs and robotic solutions
- Seamless integration with existing management systems
- Real-time monitoring & predictive analytics
- Rapid deployment capabilities

The Growing Need for Automation in Warehousing

As global demand for faster and more efficient logistics grows, the need for sophisticated warehouse automation solutions has never been greater. This white paper details how Liftians' advanced technology is addressing these needs by enhancing productivity, reducing labor costs, and ensuring accuracy in order fulfillment.

Core Solutions and Benefits

Innovative Automation Solutions for Modern Warehouses

Autonomous Mobile Robots (AMRs)

Liftians' AMRs are designed to optimize material handling, reduce labor costs, and improve order accuracy. These robots can be deployed within weeks, integrating effortlessly with any warehouse management system (WMS/ERP).



Robotic Picking Arms

Our robotic picking arms are capable of performing up to 400 picks per hour, ensuring speed and precision in order fulfillment. These robots adapt to various item types and warehouse configurations. The arms can either be placed stationary or attached modularly to an AMR.



Forklift Robots

Advanced forklift robots improve productivity by streamlining heavy load movement, reducing manual labor, and optimizing workflows. With precision sensors and seamless integration capabilities, they enhance safety and enable faster, more accurate goods handling.



Sorting Robots

Liftians' sorting robots are adaptable, autonomous systems designed to enhance material sorting in warehouses. With detachable top plates, they can handle diverse sorting needs, improving accuracy and reducing manual labor.



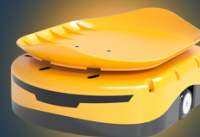
Conveyor

Key Benefits

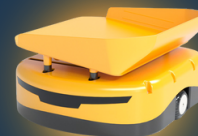
- 50-70% less labor costs
- 99.99% order accuracy
- Rapid deployment
 - 2-8 weeks
- Fully customizable system



High Plate



Plate



Incline Plate

Case Study

Hollywood Feed Transforms Warehouse Efficiency with Liftians Solutions

Overview

Hollywood Feed, a leading pet retailer based in Memphis, sought to streamline its warehouse operations to enhance productivity and reduce labor costs. After implementing Liftians' automated systems, Hollywood Feed was able to achieve impressive operational improvements, allowing the company to reduce both labor requirements and operational hours significantly.

Challenges

Hollywood Feed dealt with increased operational costs from extended hours and labor-intensive processes. Their Memphis warehouse operated 20 hours a day, 7 days a week, requiring a large team of pickers to meet customer demand.

Solution

Hollywood Feed implemented Liftians' cutting-edge warehouse automation solution, designed to optimize picking and sorting processes while minimizing the need for manual intervention.

Results

Within a year, Hollywood Feed experienced a substantial improvement in operational efficiency:



Operating Hours:

From 7x20 to 6x14

50% reduction



Cost Savings:

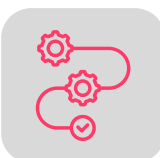
Reduced labor and energy costs from shorter operating hours and fewer staff.



Labor Efficiency:

Leaner, more efficient workforce.

70% reduction in pickers



Improved Workflows:

Automated systems improved picking accuracy and speed, leading to quicker order fulfillment.

Conclusion

Hollywood Feed's partnership with Liftians showcases the tangible benefits of warehouse automation. The transition resulted in enhanced productivity, substantial labor savings, and a marked improvement in operational efficiency.

Industry Context

Navigating the Challenges of Modern Warehousing

Rapid Deployment and Customization

In an industry where time, efficiency, and efficacy are critical, Liftians' ability to deploy fully customized solutions rapidly sets us apart. Our simulations and optimization strategies ensure success from the start, with a guaranteed 5x ROI within 6 years and a 3 to 4x productivity increase within the first 3 to 6 months.

Industries Served



3PL and Logistics

Address labor shortages, spatial limitations, and efficiency challenges by implementing innovative automation solutions that will empower you to excel in the 3PL industry.



Retail and E-commerce

Turn opportunities into profits in any e-commerce and retail distribution center. Our material handling solutions will boost order fulfillment speeds. Don't just meet expectations—exceed them and outpace your competition.



Food and Beverage

Overcome staffing shortages, safety concerns, and efficiency bottlenecks with automated robotic systems that excel in extreme conditions, a wide temperature range suited for both indoor/outdoor, and uneven floors.



Factory and Manufacturing

Overcome staffing shortages, safety concerns, and efficiency bottlenecks with automated robotic systems that excel in extreme conditions, a wide temperature range suited for both indoor/outdoor, and uneven floors.

Seamless Integration

Our system integrates effortlessly with any management systems, including legacy, custom-built, or third-party platforms. It enhances your Warehouse Management System (WMS) or Enterprise Resource Planning (ERP) with features like real-time monitoring, predictive analytics, and fault-tolerant protocols, ensuring efficient warehouse operations and minimizing downtime.

Why Choose Liftians?

Key Advantages of Choosing Liftians



Strategic Benefits of Working with Liftians

Exceed Industry Benchmarks

Our solutions exceed the highest standards in safety, quality, and performance, establishing new benchmarks in warehouse automation.

- Leading efficiency and ROI
 - ✓ Proven track record of increasing productivity and reducing costs

Key Metrics



2.5-3.5x
Throughput



60-75% Less
Labor Cost



400%+ Increase
Pick Capacity



2.5x Workers
Replaced



90% Reduced
Damage Rate



99.99%
Accuracy



25% Increase
Storage Density



300-400%
Productivity

Headquartered in Silicon Valley

Liftians harnesses Silicon Valley's innovative technology and talent pool to provide advanced warehouse automation solutions globally.

Comprehensive Customization

- Tailored solutions for unique warehouse needs
 - ✓ Backed by simulations and stress testing
- Adaptable to various warehouse conditions
 - ✓ Greenfield, brownfield, and bluefield
 - ✓ Extreme temperatures
 - ✓ Indoor, outdoor, uneven surfaces up to 20°
- Flexible and scalable solutions
- Seamless integration with any and all systems

Expand Technological Capabilities

- AI-driven predictive analytics for inventory optimization and maintenance
- Advanced robotics and co-bots for complex tasks
- IoT integration for real-time monitoring

Customer-Centric Solutions

- Modular and scalable systems
- User-friendly software interfaces
- Plug-n-play integration with existing systems
- Top-notch data security standards
- Round-the-clock support

Conclusion

Liftians is at the forefront of warehouse automation, offering scalable, efficient, and highly customizable solutions that transform logistics operations. As we continue to innovate and expand, we invite you to join us in revolutionizing the future of warehousing.



American Based

Our solutions are designed, engineered, and tailored directly in-house from our headquarters at the heart of Silicon Valley.



Fully Customizable

Every company, warehouse, and operation is different, and our solutions are tailor made specifically for your needs & requirements.



Data Security

Our system relies on in-house databases and servers rather than 3rd-party cloud services, removing the possibility of sensitive data getting leaked.


Client Oriented 

Competent 

Results Driven 

Ready to take the next step?

Contact us today to schedule a free consultation and see how Liftians can elevate your operations.

 Problem Solving


 Transparent


 Satisfaction Guarantee




CONTACT INFORMATION

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