

# Smart Retrieval Autonomous Car

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# Problem Statement

## ① Manual Search and Retrieval

The process of locating items might be really time-consuming.

## ② High Costs

Large warehouses employ a significant number of workers.

## ③ Safety Risks

Working at heights and handling heavy objects increase the risk of injuries among workers.

# Target Audience

## Inventory Management

Warehouses and stores require efficient solutions for rapid item handling.

## E-commerce

Logistics centers and online retailers face significant amounts of returns and supplies.

## Recycling

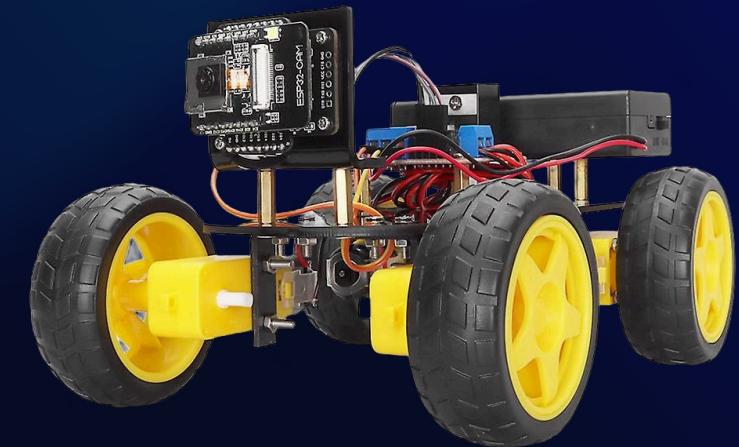
Recycling centers are required to handle and sort significant quantities of materials.

## Education and Research

Laboratories and universities need to locate research tools and literature.

# Our Solution

**WHAT IF YOU HAD A MACHINE THAT COULD DO  
ALL OF IT FOR YOU?**



# Key Features



## WiFi Remote Control

Interaction and control of the car via a remote user interface.



## Object detection

Equipped with an ESP32 camera and visual recognition system.



## Autonomous driving

Automatically drives to the designated item and transfers it to the correct location.



# Product Demonstration

Watch

# How it works?

**User Interaction with UI**



1

**Command Reception**

**Object Searching**



2



3

**Response and Action**

# Comparison with Other Solutions



## Single-function robots

perform a specific tasks only, limited flexibility.



## Manual Solutions

Rely on human resource - less efficient, high costs.



## Forklifts

Require a driver and substantial in size.



Made with Gamma

# Final Overview



**Versatile**



**Efficient**



**Cost-saving**



**Safety**

