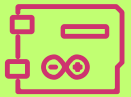
RECYCLING

SMART BIN

The smart bin system is an innovative solution that works with Arduino and automatically detects waste thanks to ultrasonic sensors. This system measures the distance of the sensors and when an object approaches the front of the trash can, it is activated and automatically opens the trash can lid. Thus, users can throw their waste hygienically without touching the trash can.



The smart bin system not only provides hygienic use, but also offers an environmentally friendly solution. This system, which works with Arduino and is equipped with ultrasonic sensors, is designed to distinguish types of waste such as plastic, glass and paper. The system directs it to the correct compartment by detecting certain features on the waste (for example, material density, reflectivity or color). In this way, recycling processes are facilitated and the correct separation of waste is ensured. Users can contribute to both hygienic and environmentally friendly waste management by disposing of their waste without touching it and correctly. This innovative system stands out as an important step for a sustainable future.

CANDELA ROBOTIC

Candela Robotic has an innovative vision that aims to protect the environment and integrate technology into every aspect of life by combining robotic coding technology with the understanding of sustainability. It increases environmental awareness with the projects it develops on waste management and recycling, while encouraging the effective use of robotic technologies.

We would like to thank those who contributed to the realization of this project:
Mağusa Development Center Magem Maraş,Spot,
Nicosia Children's Center and Blackbird Cafe.

candelaroboticschool

This publication has been funded by the European Union. Its content is the sole responsibility of Candela Robotic and does not necessarily reflect the views of the European Union.

Avrupa Birliği tarafından finanse edilmektedir
SİVİL BÜYÜ

Eco-Robot

The "EkoRobot" project aims to take a leading role in combating climate change by combining environmentally friendly technology and innovative robotic solutions. The project aims to take important steps towards a sustainable future by focusing on the reuse and recycling of waste materials.

As part of the project, environmentally friendly robots were designed and produced using recycled materials.

These robots:

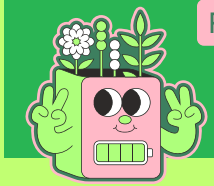
- **Were created using recycled materials.**
- **Were designed to provide energy efficiency.**
- **We provided practical functions for environmental issues,**

These:

Pollution Control

Supporting Waste Management

Protecting Nature

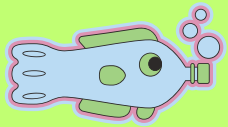


Raising

Public Awareness

In the project, we organized various activities to increase public awareness of climate change and environmental issues. These activities included the following activities:

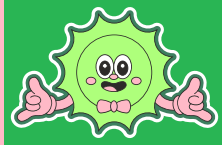
Beach Cleanup Events



We organized beach cleaning events on the beaches of Kyrenia and Famagusta.

30 bags of WASTE

Workshops at Schools



In Famagusta(MAGEM Maraş),Kyrenia(GIGEM),Nicosia(Lefkoşa Çocuk Merkezi) We organized workshops provided 5 week class on robotic coding,envoriment and sustanability to participants between the ages of 7-15. After 5 weeks workshops we completed Eco-Robots.

35 participants received training and 8 smart bin robots were designed

Smart Bins were designed using materials such as caps, plastic bottles, tin bottles, glass, etc. collected from beaches.