

Improving Quality of Life and Safety with Everyday Tasks

Today's robots have the ability to complete many complicated tasks and can be used to help solve 21st Century challenges and help us complete everyday tasks (like collecting trash) more efficiently and easily.

Italy's Trash Robot



Today's robots have the ability to do tasks that humans do not want to do. In Italy's case, the politics of picking up trash landed cities with trash pile ups and ultimately a less cleaner area to live. The Trash Robot works by arriving at a home, asking for a personal ID number that identifies both the user and then asking if the trash is organic, recyclable or waste. Using this robot both helps make trash clean up efficient but also tracks how much trash is being collected through Italian cities. The Trash Robot takes the trash in its belly to a dump site, where no human would want to travel to. Using technology like the Trash Robot, gives humans the ability to use robots to complete tasks that humans do not want to do and cannot do as efficiently.

In the 21st century, engineers are continuing to develop robots to complete tasks that benefit humans in many ways. These advancements have led robots to become widely used in our communities.

- There are many benefits for using robots:
- They are capable of lifting heavy loads without injury.
- They are more precise in their movements.
- They can perform tasks that are dangerous to humans.
- They can work in hazardous conditions, such as poor lighting, toxic chemicals, or tight spaces.

Discussion:

- What kind of everyday tasks would you like to see robots performing? How would having a robot do those tasks improve your everyday life?
- Choose an everyday environment such as a school, a supermarket, or a home, and think about the kinds of tasks a robot could perform in those environments. Which would be the most valuable? How could a robot actually perform this task?

- How could robots be used to help cities have cleaner, greener environments?
- How might we use robots to make our homes more environmentally friendly?