

Instruction manual

The unmanned cart uses arduino mega 2560 motherboard to control the cart, and has many functions such as bluetooth uploading data, ultrasonic distance measurement and obstacle avoidance, ultrasonic treasure hunting, automatic steering and obstacle avoidance, and WiFi connecting camera for treasure recognition. The cart has two main control power switches, one controls the arduino motherboard to turn on all the above functions and energize the motherboard to drive the cart forward, and the other power supply is dedicated to powering the motor, so that the power of the cart is guaranteed.

When the two switches are turned on at the same time, the party can drive the cart to move, the data in the cart will be uploaded to our exclusive website through Bluetooth function, the whole process is fully automatic, the recognition of treasures can be recognized in the movement of the state of the object, and in the appropriate distance to stop, turn around automatically back to the starting point.

The e-commerce students used mysql language to create a database to transfer our driving and image data and store user information for logging in to the website, the Bluetooth data will be directly uploaded to the e-commerce students' database and then displayed on the webpage they compiled in html language, and the information recognized by the WiFi camera will be passed through the IoT students' deep learning based python language that recognizes the treasure and compares the recognition of the treasure. Finally the comparison results are displayed on the web page using gui docking