Build Script – PiRover

Christopher Albarillo

\*The script will be divided equally depending on the video length.

Introduction: 2 seconds

PiRover

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Parts: 5 seconds

- RaspberryPi 3

- 1x Ultrasonic sensor

- 2x Micro Servo Motor FS90R

- 3x Pieces Laser-Cut Chasis from Prototype Lab

- Portable battery pack charger and USB cable

Parts Assembly:

- PiRover assembly (7secs max)

Power up: 5 seconds

- Short demonstration of the PiRover prototype

Functionality and Plan: 5-10 seconds

- Talk about functionalities and Plan

My name is Christopher Albarillo and my project is the PiRover. PiRover is similar to any autonomous car, the only difference is that the PiRover itself is portable and can fit into a regular toolbox. It can be controlled manually and automatically equipped with the ultrasonic sensor which is used to measure distance for autonomous mode. It is compatible with an app that I built for my software project that connects via Bluetooth. For future upgrades, I would like to 3D print a case that is light enough for the PiRover to maneuver around and strong enough to withstand outdoors. In addition, I would also like to equip the PiRover with a much smaller battery pack for better performance, weight-wise.