

Download How To Build A Robot With An Arduino

Module 1 Of 10

In this instructable, I'll show you how to build a small self-balancing robot that can move around avoiding obstacles. This is a tiny robot measuring 4 inches wide and 4 inches tall and is based on the Arduino Pro Mini development board and the MPU6050 accelerometer-gyroscope module. In the steps ...Hi, I'm enjoying your tutorials, they are well documented, relevant and very easy to follow. Would love to see you write a tutorial demonstrating how to use more than 1 different type of sensor at a time, for example a distance sensor and say a tilt sensor that could be combined for use on a wheeled robot that could detect objects in front as well as if it has been picked up or knocked over. Obstacle Avoiding Robot is an intelligent device which can automatically sense the obstacle in front of it and avoid them by turning itself in another direction. This design allows the robot to navigate in unknown environment by avoiding collisions, which is a primary requirement for any autonomous mobile robot. This guide shows how to use the NEO-6M GPS module with the Arduino to get GPS data. GPS stands for Global Positioning System and can be used to determine position, time, and speed if you're travelling. We'll show you how to wire the GPS module to the Arduino, and how to write code to get GPS coordinates.