

Arduino Uno 2560 Project Ideas

Here are 8 cool project ideas for the Arduino Uno 2560:

1. Wind Turbine Power Monitor: Use the Arduino to monitor the voltage and current generated by small motors. Display data on an LCD screen or send it wirelessly via Bluetooth or Wi-Fi.
2. Underwater Breathing Device Simulation: Simulate an oxygen level monitoring system using oxygen sensors (or simulations) to display levels and alert when oxygen is low.
3. Robotic Arm: Build a small robotic arm controlled by Arduino with servos to experiment with motion and precision control.
4. EV Battery Monitor: Build a prototype battery monitoring system to track voltage, temperature, and charge levels, crucial for EV battery management.
5. Cat Feeder: Automate a cat feeder with a timer to dispense food at certain times, or use sensors to detect when the cat is near.
6. Portable Solar-Powered Charger: Create a solar-powered charging station for USB devices, including an LCD to display charging status and battery level.
7. Arduino-Based Electric Vehicle Prototype: Design a small electric vehicle model controlled by Arduino to explore speed, battery levels, and basic functionality.
8. Motor-Controlled Camera Slider: Build a motorized camera slider for smooth, cinematic shots,

using motors from game controllers to control movement and speed.