

BlueStamp Engineering

Example of a Build Plan

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Location: Palo Alto

Instructor: Leah Feuerman

Starter Project: #1, Minty Boost

Main Project: #212

<https://paulbleisch.com/2013/01/03/simple-remote-controlled-arduino-tank/>

Major Steps to complete the project:

1. Make sure all parts have arrived as planned
2. Draw a schematic that shows how the circuit should be connected and how each part connects to each other.
3. Assemble tank chassis with motors. Doing a quick test with battery directly connected to the motors. ***This is a milestone. Save all design files, record a video, and post to the website.***
4. install the motor shield to control the DC motors in the gearbox. Test to see if the motor can function properly. ***This is a milestone. Save all design files, record a video, and post to the website.***
5. Upload the PS2X library from Bill Porter's website. Then connect the wireless dongle for the PS2 remote from Hydra Performance. Make sure the codes match the remote
6. Assemble the whole tank, stable each part.
7. Test to see if the tank can move according to the direction from the remote control ***This is a milestone. Save all design files, record a video, and post to the website.***
8. Create full documentation, write a blog post describing the system, and post everything on your webpage.
9. Work on modification

Potential Modifications:

1. Add ultrasonic sensors
2. Add turning signal lights.