

BlueStamp Engineering

Example of a Build Plan

Name: Lily Collins

Location: Palo Alto

Instructor: Laura Kambourian

Starter Project: #11, Useless Machine

Main Project: #109, Omni-directional Robot

<http://bluestampengineering.com/student-projects/rain/>

Major Steps to complete the project:

1. Make sure all parts have arrived as planned
2. Write Arduino code
3. Connect Arduino to PS2 receiver, motor controllers, and servos (MILESTONE)
4. Make and assemble the wooden bases
5. Attach and set up wheels (MILESTONE)
6. Connect Raspberry Pi to camera and wifi module, connect to wifi
7. Install VLC and write code to start stream
8. Forward a port on the wifi router and use it to open network stream (MILESTONE)
9. Build mount for 4th servo and camera and attach
10. Modify code to control 4th servo (MILESTONE)
11. Test and create full documentation, write a blog post describing the system, and create webpage.

Potential Modifications:

1. Add 3D printed outer casing
2. Add decorative LEDs
3. Add camera
4. Connect to laptop