

BlueStamp Engineering

Example of a Build Plan

After a student selects their project with their instructor, he or she must create a Bill of Materials (BOM) listing all of the parts required and write a Build Plan describing the main project. Below is an example of a build plan.

Name: Ryan Shue

Location: Palo Alto

Instructor: Laura Kambourian

Starter Project: #11, Useless Machine

Main Project: #246, RC Hovercraft

Major Steps to complete the project:

1. Make sure all parts have arrived
2. Draw a schematic that shows every wire that will need to be connected, as well as the design of the hovercraft.
3. Construct the main body (except for the bottom skirt) using the materials and the design. ***This is a milestone. Save all design files, record a video, and post to the website.***
4. Mount the motors, fans, as well as the servo. Ensure that the motor used for providing lift is centered.
5. Create the bottom skirt and connect it with the body.
6. Connect the battery, receiver, and power switch and test the hovercraft to make sure everything works as expected. ***This is a milestone. Save all design files, record a video, and post to the website.***
7. Create full documentation, write a blog post describing the system, and post everything on your webpage.

Potential Modifications:

1. Add sensors to the front of the hovercraft that will allow it to navigate autonomously.
2. Add LEDs to the front to act as headlights.