# Test and Deploy Activity Rev 1.0

## Overview:

## With the piRover now built, many would hit the power switch and see what happens. Imagine if your rover was a full-sized autonomous vehicle. This could have catastrophic results. In this class, we’ll work through a more purposeful power up and testing procedure, keeping safety first. This activity is the first step.

## Resources:

1. Video: [Interview with Hybrid Robotics](https://youtu.be/2ZtlRotO9VA)
2. Zoom chat or breakout room

## Task:

As a class, view the video interview with Matthew Goddard, President of Hybrid Robotics, a drone company that evolved from an Engineering Technology class project.

After viewing the video, the instructor will assign partners. Using the private chat or breakout room feature of Zoom, you and your partner will review Matt’s presentation to craft answers to the following discussion prompts.

Enter your responses to each item in the space provided, save the document, and upload to the Moodle assignment link provided. The link will close after the time specified by the instructor. The class will then review and discuss responses.

1. The first milestone shared by Matt is breadboarding and testing the electronic system. What does Matt mean when he says “breadboard”? Is this step required in your piRover build? Why or why not?

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1. The second step was to build the system and install components into the carbon-fiber frame. How do you think that this action by Matt’s team was similar to your piRover build? How was their experience different that yours?

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1. The third stage identified by Matt was “power-up.” Identify specific tasks or procedures taken by Matt’s team during this startup phase. Why was the team cautious?

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1. Reflect on the Catalina startup identified in item 3 above. What processes or procedures should be used when powering up and testing your piRover system? Could “a lot go wrong very fast” if your system was a full-sized autonomous vehicle? How can you be safe? How can you protect your system?

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Submit your completed assignment to the Moodle site. The class will reconvene and discuss responses.