# Aeropod Manual

Figure 1: This box is currently a placeholder for the actual image of a completed aeropod. The following is the actual label that will appear when the actual image is used. “Figure 1: An image showing how the aeropod looks once all steps have been completed. In the back of the wooden dowel are unique fins that have connected together to form an X, making the aeropod seem more unique. Near the middle of the aeropop is a movable kite holder that will be used to connect the string of the kite to the aeropod, allowing for the kite to fly. Near the front of the aeropod, and hanging from the bottom, is the camera hanger, that hangs the camera holder from the aeropod. If the optional steps are completed, then right behind this area is a cockpit, with the front of the aeropod having an airplane nose, making the aeropod as a whole seem like an actual plane. The purpose of the product is to allow a camera to take pictures of plants, while in the air, to see how healthy they are. The more darker they are in the photos, the less healthy they are.”

## List of Materials

- Hexagon Connected to Wings (1)

  Figure 2: Image showing the hexagon connected to the wings. This allows the aeropod to fly more efficiently while in the air. The X-Wings also gives the aeropod a more sci-fi look to it.

- Kite Latch (1)

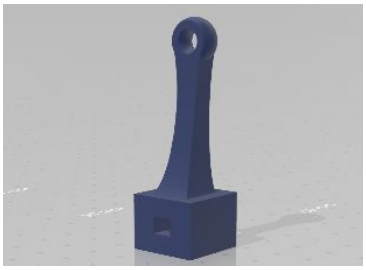

  Figure 3: Image showing the kite latch. The kite latch is able to move across the aeropod to ensure that the aeropod does not tilt unintentionally. Furthermore, as the name implies, the kite latch is meant to connect the kite string with the dowel.

- Box Support (2)

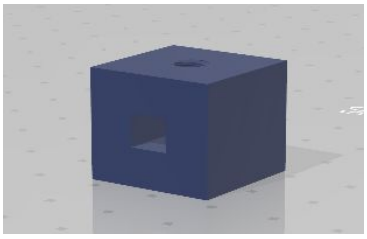

Figure 4: Image showing a box support. These box supports ensures that the hexagon with wings do not fall off the aeropod while it is in the air.

- Cockpit (1)

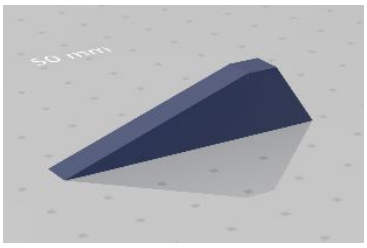


Figure 5: Image showing the optional cockpit. This is only meant to aid in making the aeropod look more like an airplane, an improvement on aesthetics.

- Camera Holder (1)

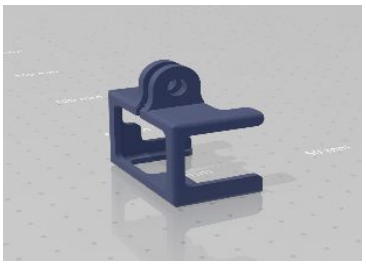

Figure 6: Image showing the camera holder. As the name implies, this is meant to hold the camera in place while it is in the air, allowing the camera to take pictures of the plants.

- Front Nose (1)

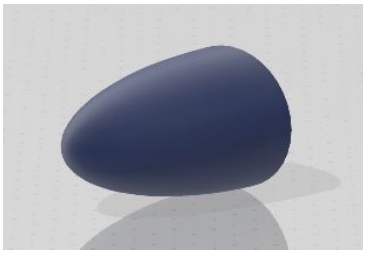

Figure 7: Image showing the optional front nose. This is only to aid in making the aeropod look more like a plan, an aesthetic improvement.

- Wooden Dowel (Main Base) (1)

Figure 8: Image showing the wooden dowel. This is the main support of the aeropod, ensuring that the aeropod can function as it is intended to.

- Camera and Memory Card (1)


Figure 9: Image showing the camera. A memory card will be included. These will be used to collect the data about how healthy the plants are. The darker the plant, the less healthy it is.

- Kite (1)

Figure 10: Image showing the kite. This is the main tool used to allow the aeropod to fly.

- Camera Hanger (1)

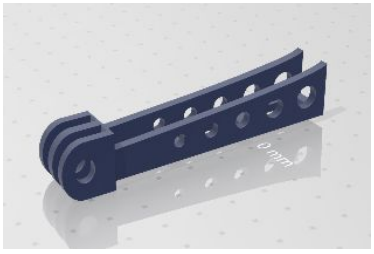

Figure 11: Image showing the camera hanger. It is meant to hold the camera holder while in the air.

- Small Screw (4)

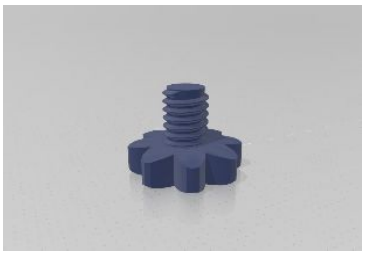

Figure 12: Image showing a small screw.It is meant to secure the kite latch, camera hanger, and box supports with the dowel.

- Large Screw (1)

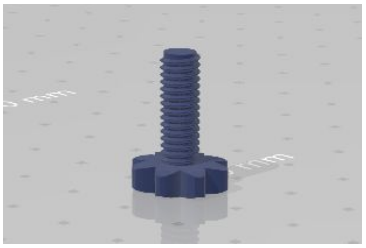

Figure 13: Image showing a large screw. It is meant to secure the camera holder with the camera hanger.

# How to Build the Aeropod

## Step 1: The Wings

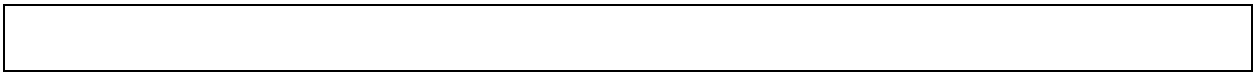

Figure 14: Connect box support number 1 to one end of the dowel, but not in the very end. There should be enough space behind the box support for a second box support and the hexagon with the wings. The box support has a hole that you can use to connect the dowel. The image will show this part of the step in the process of being completed, aiding the student in how the step should be completed.

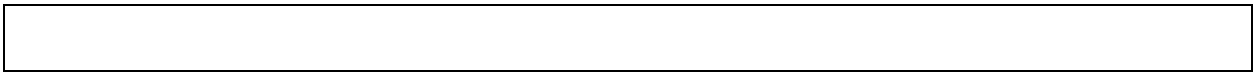

Figure 15: Connect the hexagon with wings behind box support number 1, and then box support number 2 behind the hexagon with wings. Use two small screws to tighten the box support to the dowel, one screw each. There will be a hole that you can place the screw in, and part of the dowel will be visible through this hole. The image will show this part of the step in the process of being completed, aiding the student in how the step should be completed.

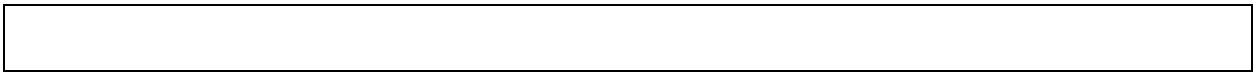

Figure 16: Image showing completed step.

## Step 2: The Kite Latch

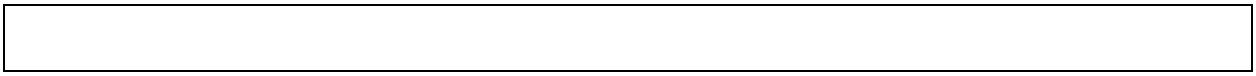

Figure 17: Starting from the empty end of the dowel, connect the kite latch using one of the holes on the main base (looks like a box support). Move the kite latch towards the center of the dowel. The image will show this part of the step in the process of being completed, aiding the student in how the step should be completed.

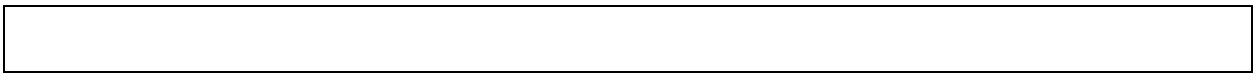

Figure 18: On the bottom of the kite latch is a hole that you can place a screw in. Use one of the small screws to tighten the kite latch to the dowel. The image will show this part of the step in the process of being completed, aiding the student in how the step should be completed.

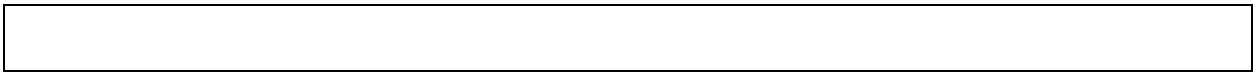

Figure 19: Image showing completed step.

## Step 3: Camera Hanger

*Please note: Before following this step, it is advised that you view and consider the optional steps near the bottom of the manual.*

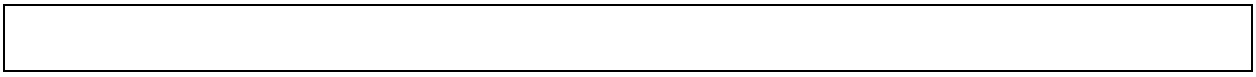

Figure 20: Connect the camera hanger near the front of the empty side of the dowel. Use the hole in the main base (looks like box support) to connect the dowel. The image will show this part of the step in the process of being completed, aiding the student in how the step should be completed.

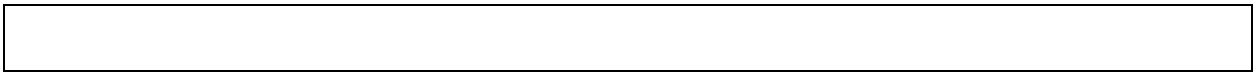

Figure 21: Use a small screw to tighten the main base of the camera hanger to the dowel. The image will show this part of the step in the process of being completed, aiding the student in how the step should be completed.

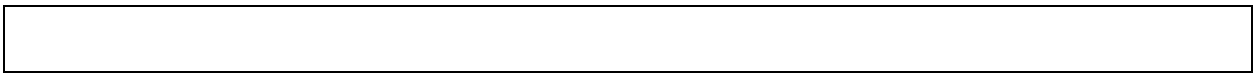

Figure 22: Image showing completed step.

# Step 4: Camera

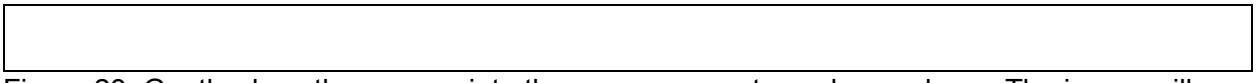

Figure 23: Gently place the camera into the camera mount, as shown above. The image will show this part of the step in the process of being completed, aiding the student in how the step should be completed.

Figure 24: Image showing completed step.

## Step 5: Connecting Camera Mount to Camera Hanger

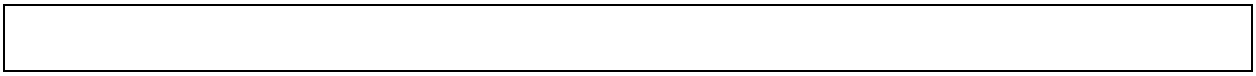

Figure 25: Connect the camera hanger to the camera mount as shown above. Use a big screw to tighten this area using the round holes, directly where the camera hanger is being connected to the mount. The camera mount is able to move at any angle before using a screw. The image will show this part of the step in the process of being completed, aiding the student in how the step should be completed.

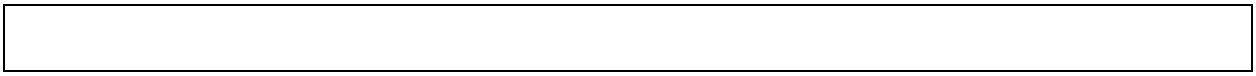

Figure 26: Image showing completed step

# OPTIONAL STEPS

*WARNING: These steps are purely OPTIONAL and they do not affect the flight of the aeropod, except for added weight! Furthermore, these steps are PERMANENT! They cannot be undone, and doing both steps ensures that you are unable to remove the camera hanger! Finally, these steps must be conducted with ADULT SUPERVISION! A heat gun is required for these steps. Remember, these steps are purely to make the aeropod look more like an airplane, they are only optional.*

- For the cockpit, and with an adult, carefully use a heat gun to glue the cockpit to the dowel. There should be enough space in front of the cockpit to connect the camera hanger to the dowel. Remember, heat guns are dangerous, so make sure there is adult supervision, or just have an adult do it!
- For the front nose, and similarly with the cockpit, carefully use a heat gun to glue the cockpit IN FRONT of the dowel. This part of the dowel should be the closest to the camera hanger, so don't glue the front nose where the wings are! Remember, heat guns are dangerous, so make sure there is adult supervision, or just have an adult do it!