

Miniature Lamp - Build Documentation

Here are some pictures to help guide the build process:

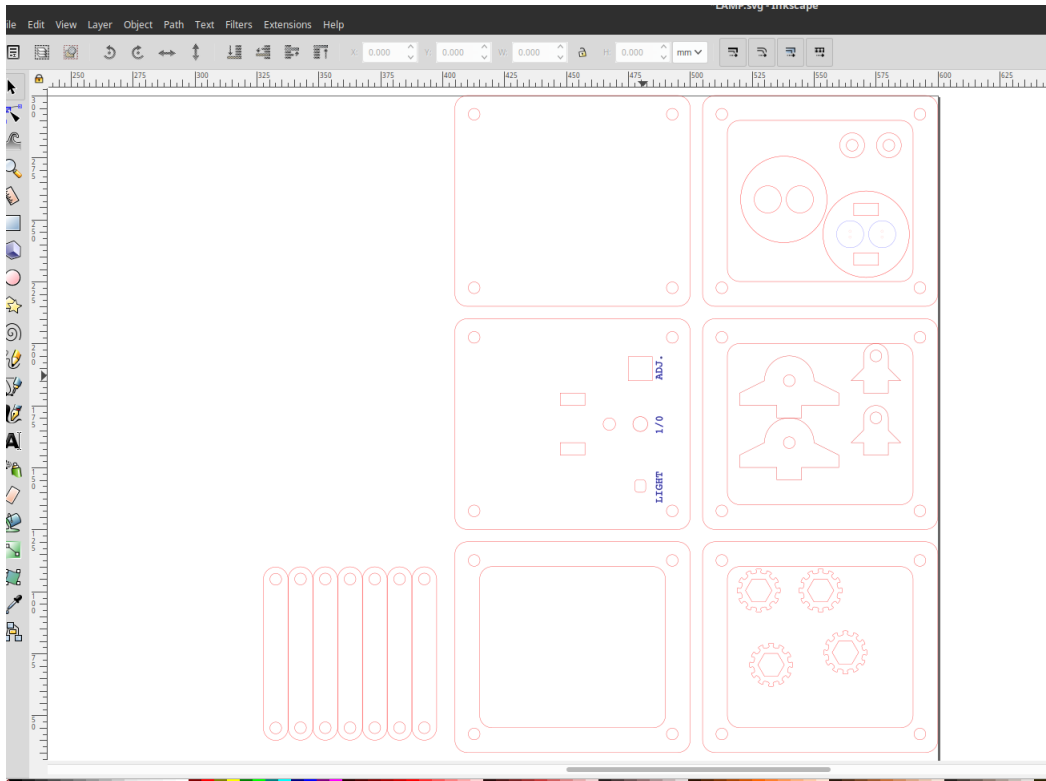


Figure 1: Design - Inkscape

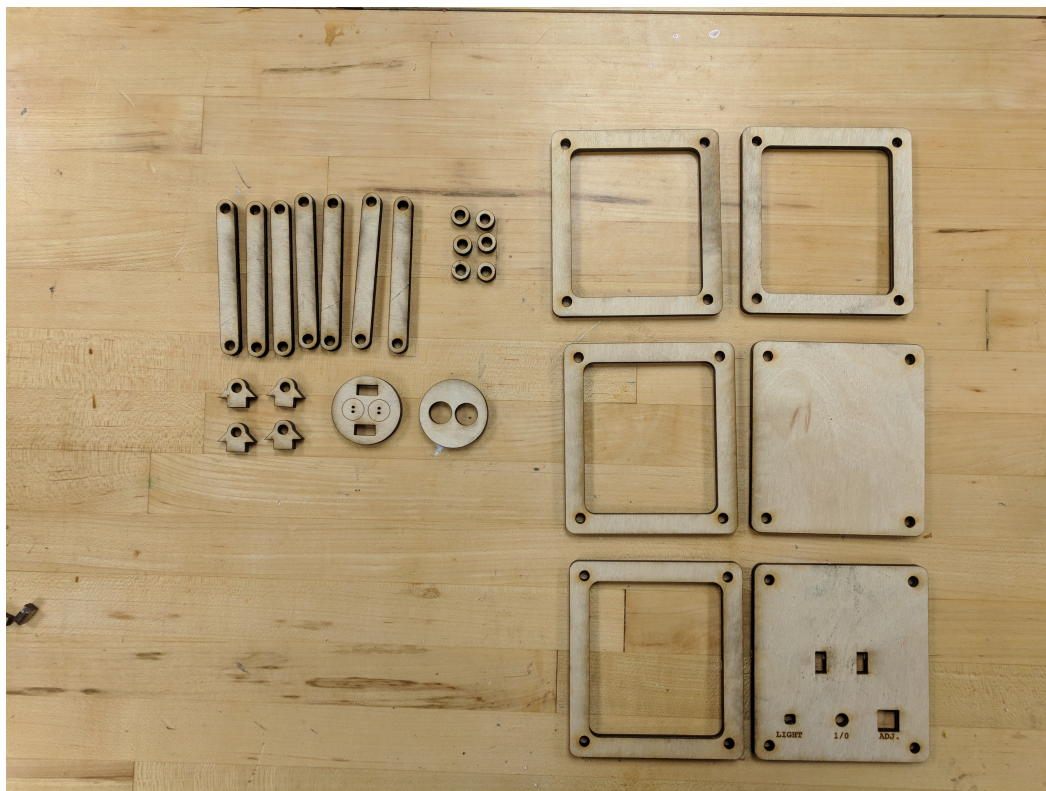


Figure 2: Laser Cut - 5mm Plywood

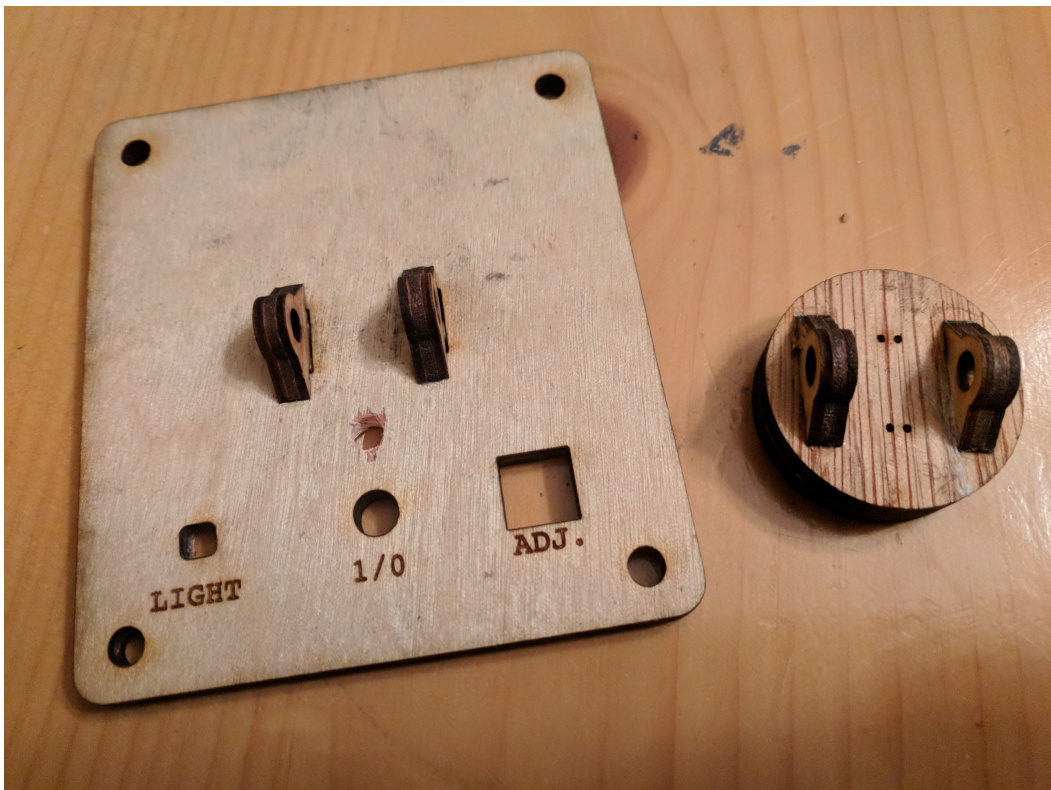


Figure 3: Glue the pivot pieces to the lamp head and the top of the base



Figure 4: Align and glue the two lamp head pieces together



Figure 5: 10-24 bolt through the pivot joint on the base, add a spacer between the first two arm pieces



Figure 6: Add three more arm pieces and place a 10-24 bolt through those 5 stacked

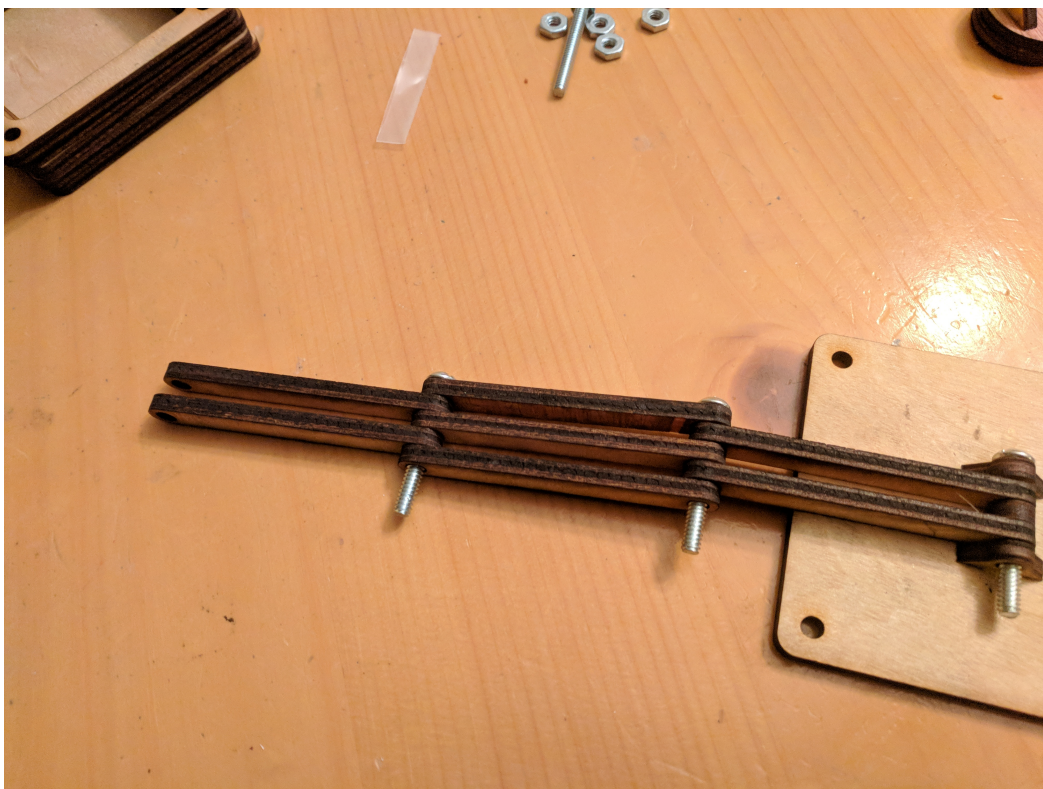


Figure 7: Repeat the above process with two more arm pieces and another bolt

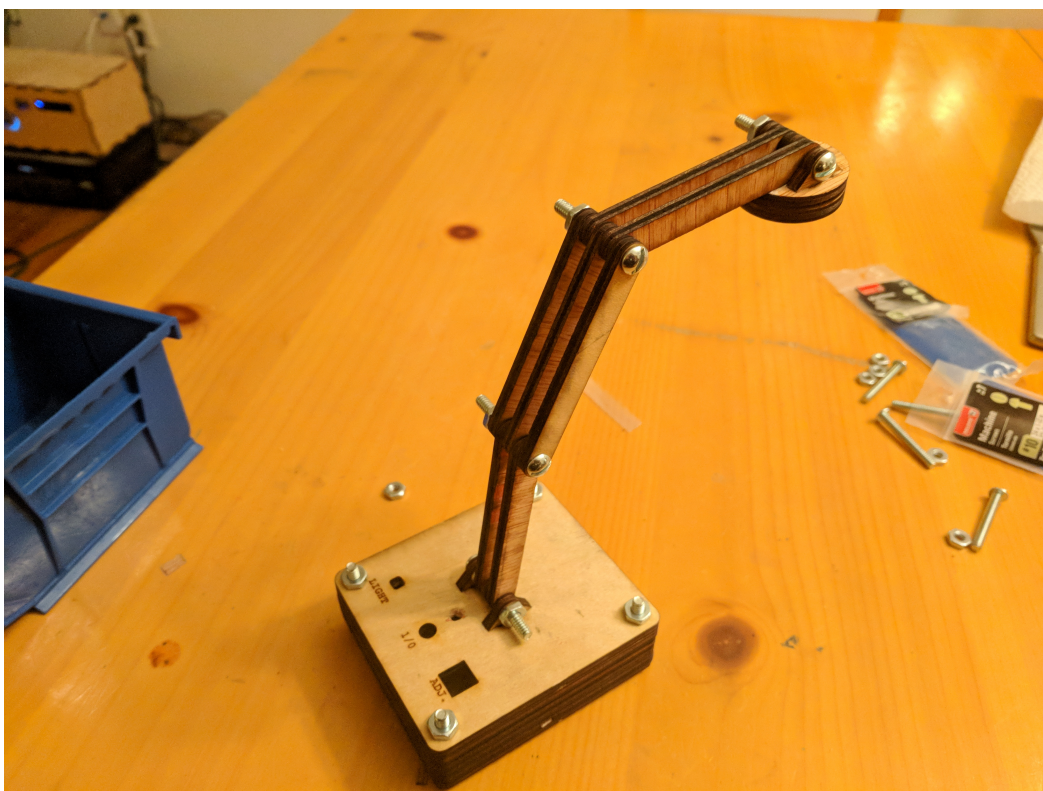


Figure 8: Connect the lamp head to the last arm and include another spacer

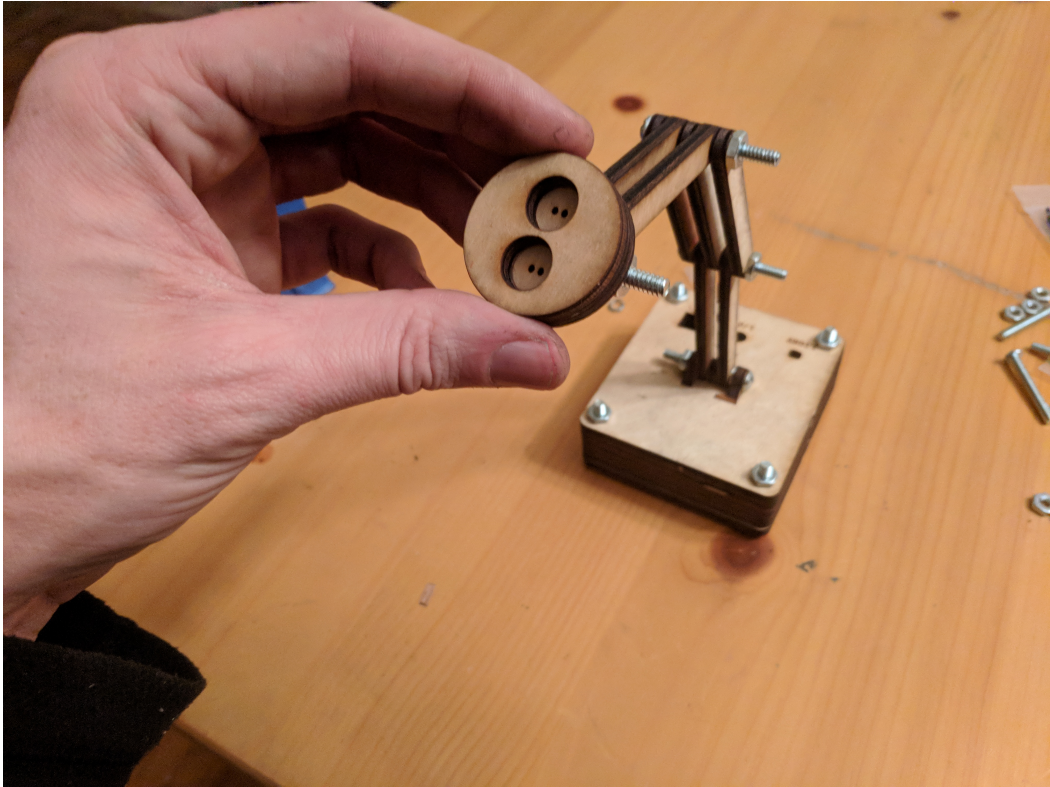


Figure 9: Another view of the lamp being put together - the base is stacked with the solid pieces on the top and bottom

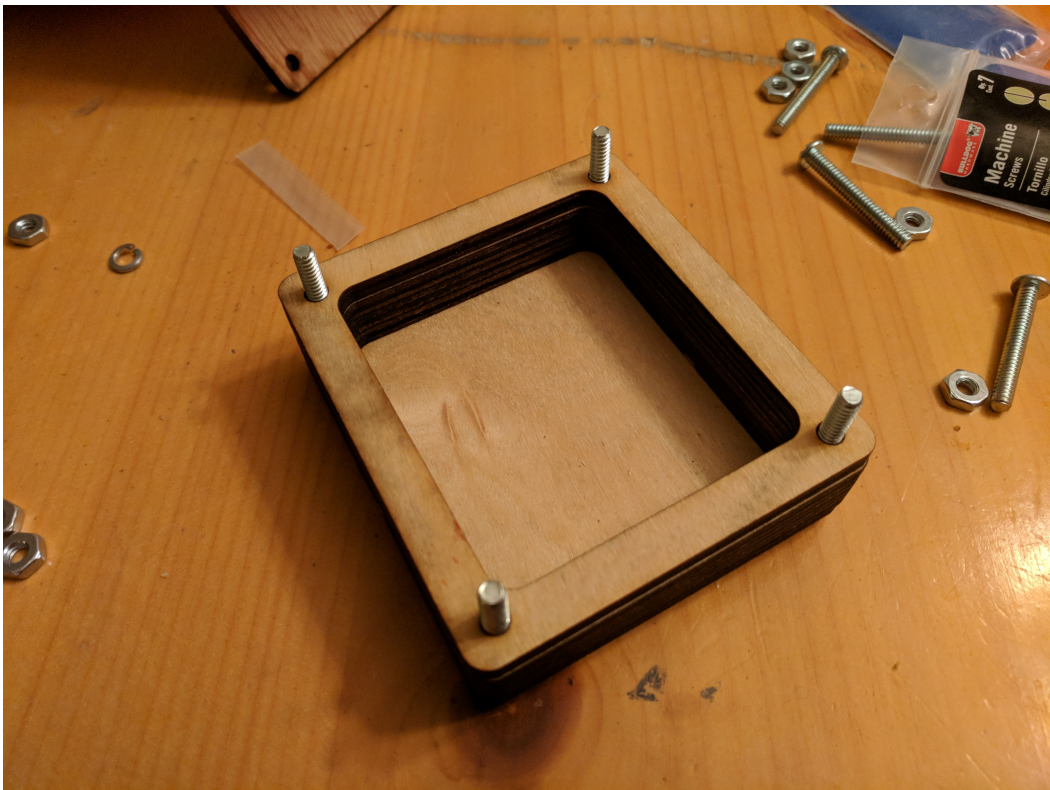


Figure 10: Here is the inside of the base to hold the electronics and the battery

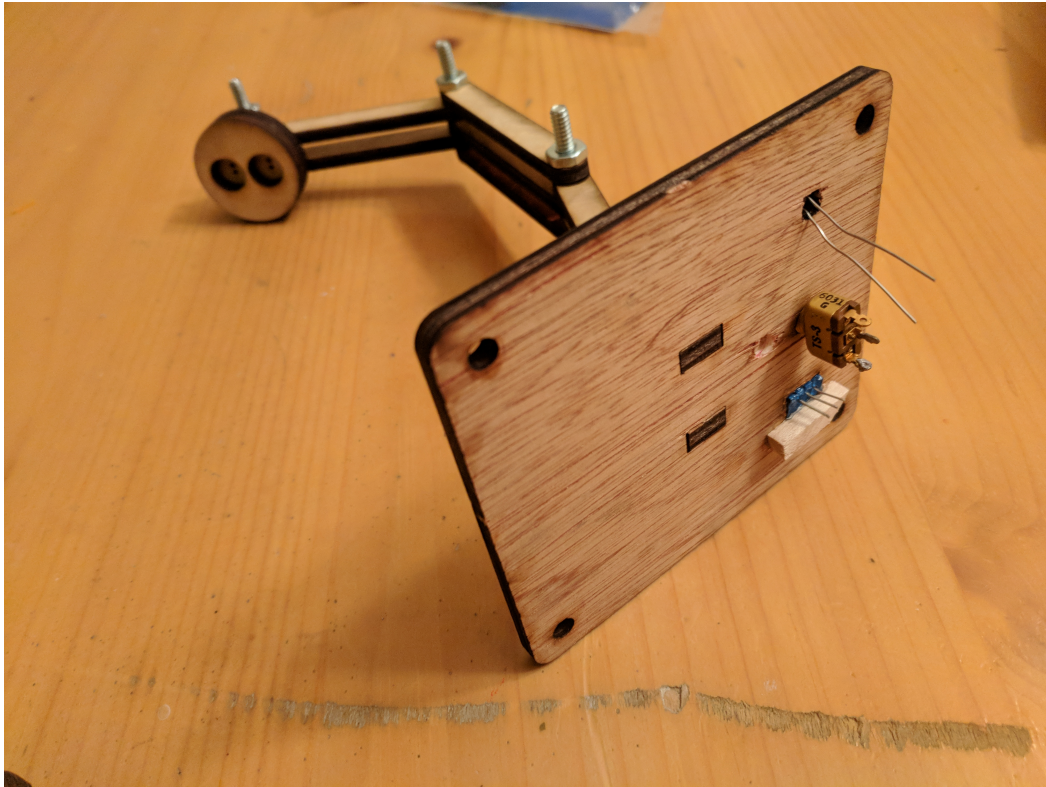


Figure 11: All of the electronic components are placed in the top of the base, a small strip is glued underneath the trimmer pot to keep it in place

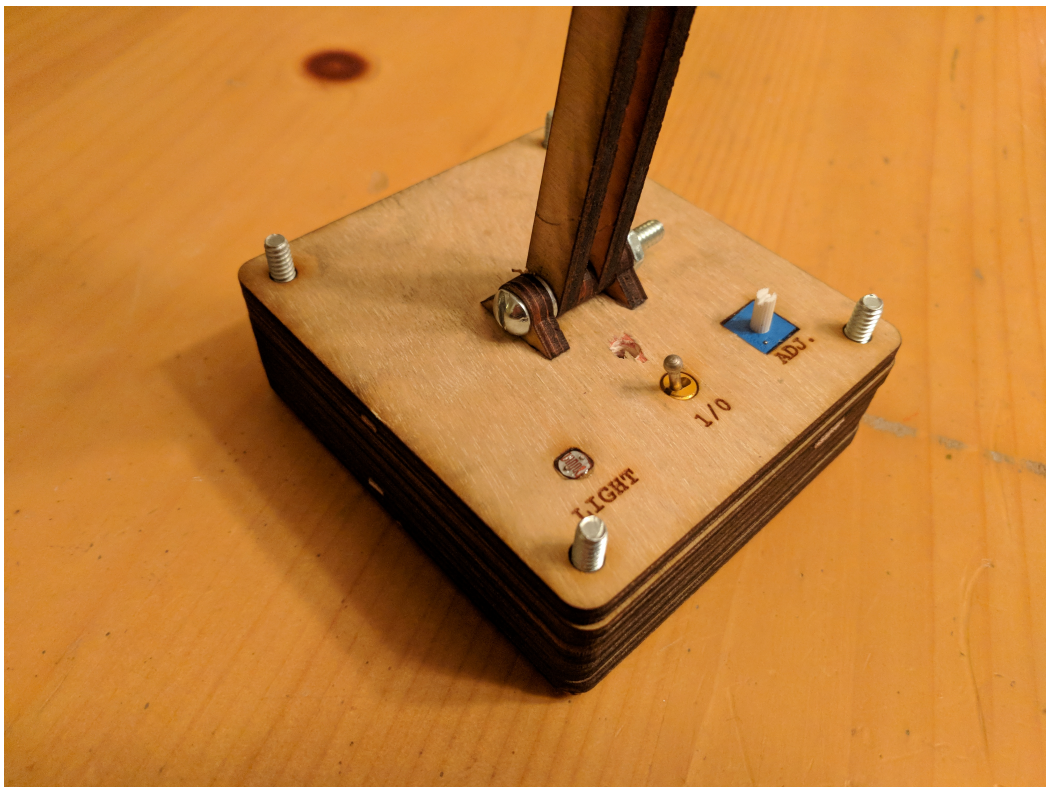


Figure 12: This is the completed base with minimal electronic components in place