**The following are tasks that need to be completed this term:**

1. Finish non-motorized telescope assembly.
   1. Drill holes into turntable and assemble uprights.
   2. Drill holes and screw in horizontal struct piece.
   3. Paint unfinished pieces
2. Create gearing system.
   1. Design and print large pulley gear.
   2. Order smaller gear and timing belts.
3. Connect power adapter to power supply.
4. Connect power supply to stepper drivers.
5. Connect level shifter for the 3.3V I/O of Raspberry Pi to 5V of the stepper motor driver.
6. Develop software to drive motors.
   1. Develop software to drive 2 motors at once.
7. Develop software to aim telescope.
   1. Find the math behind aiming 2 axis control in 3D geometric space.
   2. Apply the math to the code for driving the motors.
8. Develop software to track a coordinate as the earth rotates.
   1. Develop software for calculating sidereal time.
9. Create or purchase board and electronic housing.

**Signed:**

