Received guide rails
- Maximum extended length is 35.5”
- Minimum retracted length is 19.5”
- Desirable for raising and lowering the monitor
- Good strength, slide up and down smoothly even when being bent forward
Work Completed
Monitor Lift

- Received the bracket
  - Can be mounted tightly to the actuator’s shaft
  - Can be mounted to the monitor’s frame
  - Can be adjusted so that monitor frame is statistically raise and lower
Contacted Dr. Hallowel regarding the new idea of purchasing a flat panel LCD monitor

- Dr. Hallowel favors the new idea of the new monitor and the overall design of the device
- In the process of picking a suitable monitor
  - 27” widescreen
  - 20-25lbs
  - Dell or Samsung products
The new motor arrived
- The torque was tested and is very good for our application
Found out Grumbacher manufactured a new cap that does not have big groove, therefore unable to create a mold. New design for the paint cap remover is needed.
Since there is no groove to grip on the cap, a clamp is applicable: PanaVise

- Only use the top part of the vise
- The lever will be longer for easy control
New design for the paint cap remover:

The motor is attached to the paint tube’s holder, which will be rotating.
Future Work

- **Monitor lift**
  - Help Dr. Hallowel to chose a new monitor
  - Go to the machine shop to chose the right material for the platform and the monitor frame
  - Design and construct a new monitor frame or holder
  - Find out a way to stop the actuator at 12” height

- **Paint Cap Remover**
  - Construct the paint tube holder
  - Connect the paint tube holder and test the ability of the motor
  - Design a more reliable circuit for the motor
  - Implement the switch
  - Design the enclosure
  - Purchase a PanaVise
Monitor Lift
- Getting a new monitor is very beneficial for our design, in which it helps for easy construction of the monitor frame
- Most of the materials needed for the design arrived and we are ready to build the device once we received confirmation about the new monitor from Dr. Hallowel.

Paint Cap Remover
- It took a lot of time for searching and coming up with a new idea for the paint cap head. However, the new design is desirable.

Overall, we are on track and work hard to get all the expected work done.
Hours Worked

- Katie Zilm – 12 hours
- Thuy Pham – 12 hours
- Pat Keating – 12 hours
- Dan Zachs – 12 hours