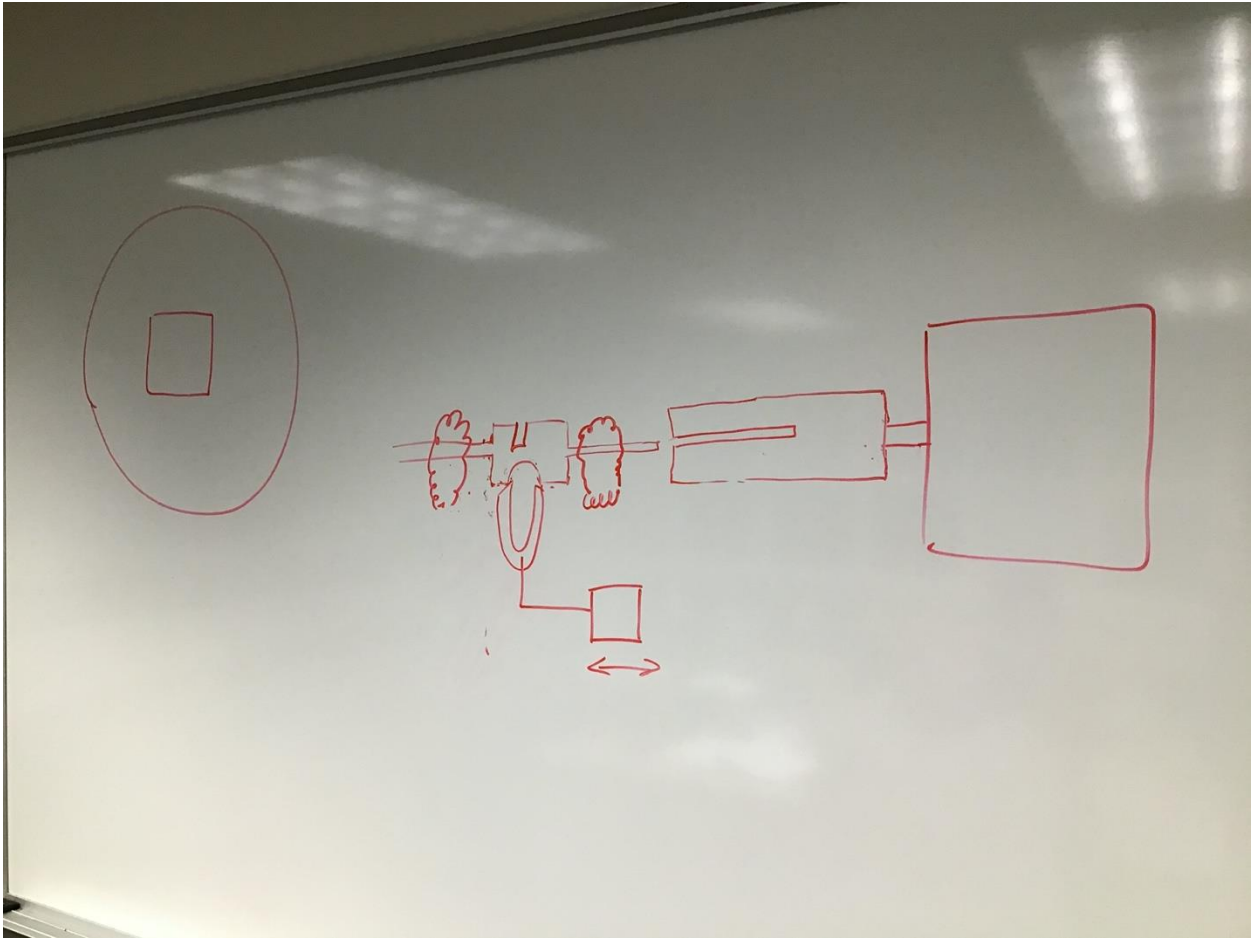


Meeting #10 Agenda for 10/27/20

- Discuss changes to DVR plan with Dr. Perry
 - Dates and feasibility
 - Recommendations section
- Discuss Project Value Proposition for Thursday
- Continue Prototyping Device
 - Check on circuit control and output control
 - Check on handle fabrication
 - Check on output linkage fabrication
 - Assemble and test components if necessary/possible
- Client meeting on Friday
 - Jett will be absent, but can still arrange for the meeting to occur
 - Questions?
 - Updates
- Determine if we will need to meet Thursday to continue prototyping

Team Meeting #10 Minutes

- Client Meeting Planning
 - Questions
 - Should there be set RPM speeds that can be selected for the motor? How many options should there be?
 - Is there a specific need for a trigger, or would an on/off button suffice?
 - Updates
 - We have a rough draft of the CAD model for the prototype, as well as a rough draft for the code that will run the device
 - The potentiometer will control the motor speed, and the device will be powered by a single button/trigger pull
 - Show Dr. Hiller the electronics and design choices if possible
- DVR Revisions
 - Jett spoke with Dr. Perry and worked through the DVR to update it according to his suggestions
 - DVR is now current
- Prototyping and Design Discussion and Considerations
 - We should possibly look back on the toothbrush motor depending on how our prototype mechanical linkage works out
 - We should consider button placement on the device to be comfortable, but not easy to accidentally activate
 - For the next few weeks, we will focus on ensuring that the shaving mechanism we have designed will work, as well as programming the electronic control of that mechanism
 - When we are ready to grit, there is potentially a sandblasting shop outside of town that we could work with
 - Laser etching could also work for gritting sanding surface
 - After discussion of several possible mechanical linkages, we have decided to attempt a design that will use the mounted motor back behind the shaft (similar to a traditional drill), with a key, solenoid, or electromagnet that will actuate the shaft forward and backward



Action Items:

- **Jett** will complete the value proposition and submit to Dr. Perry by Thursday
- **Maclean, Ryan, and Lucas** will attend the client meeting with Dr. Hiller on Friday, and provide him with updates and questions as needed/outlined above
- **Everyone** will continue to develop the prototype to meet the deadlines for 11/13/20, including completing the mechanical design for the device shaver mechanism, CAD model, and first prototype testing