

Team Meeting #5 Minutes

Observations

Make grip more comfortable

Battery pack either connects to the design or is internal to the design

Standoffs and countersunk heads hold together the handle

Speed adjustment mid surgery?

- Variable pull trigger- use wire with a potentiometer

- H-bridge

Make trigger pull longer

- Trigger toggle or hold down?

Shaft mating inside of the device, motor output shaft could be threaded and after being secured the shaft could be held with a cotter pin?

- Remove the sleeve?

- Something to hold the output shaft straight

Threading on output shaft to attach heads with lock-tite?

Sandblasting to grit shaver device?

For solenoid- longitudinal actuation with a head that filed back and forth?

- Need to create a sleeve for the head to protect the side of the tissue not being shaved

Things to try

Solenoid for motor mechanism

Redesign the housing unit

- Compartment for a 9V circuit source

- Smooth edges and make more ergonomic

Trigger with toggle and more pull

- Pinned trigger

- Potentiometer on the side of the device to adjust motor output speed

Smaller circuit board with H-bridge on the bottom of the circuit board

- Scrap circuit layout and start over with board, program, and design

- Circuit python

- Buy adafruit

- knobbed potentiometer

Clips to hold housing together instead of threads

Action Items For Tuesday

-Everyone bring a motor/output design to the next meeting

- Solenoid or motor

- Know the footprint of all device components

- Know what kind of power supply it will use