Integration of Vibration Motors and Top Plate: Design Document

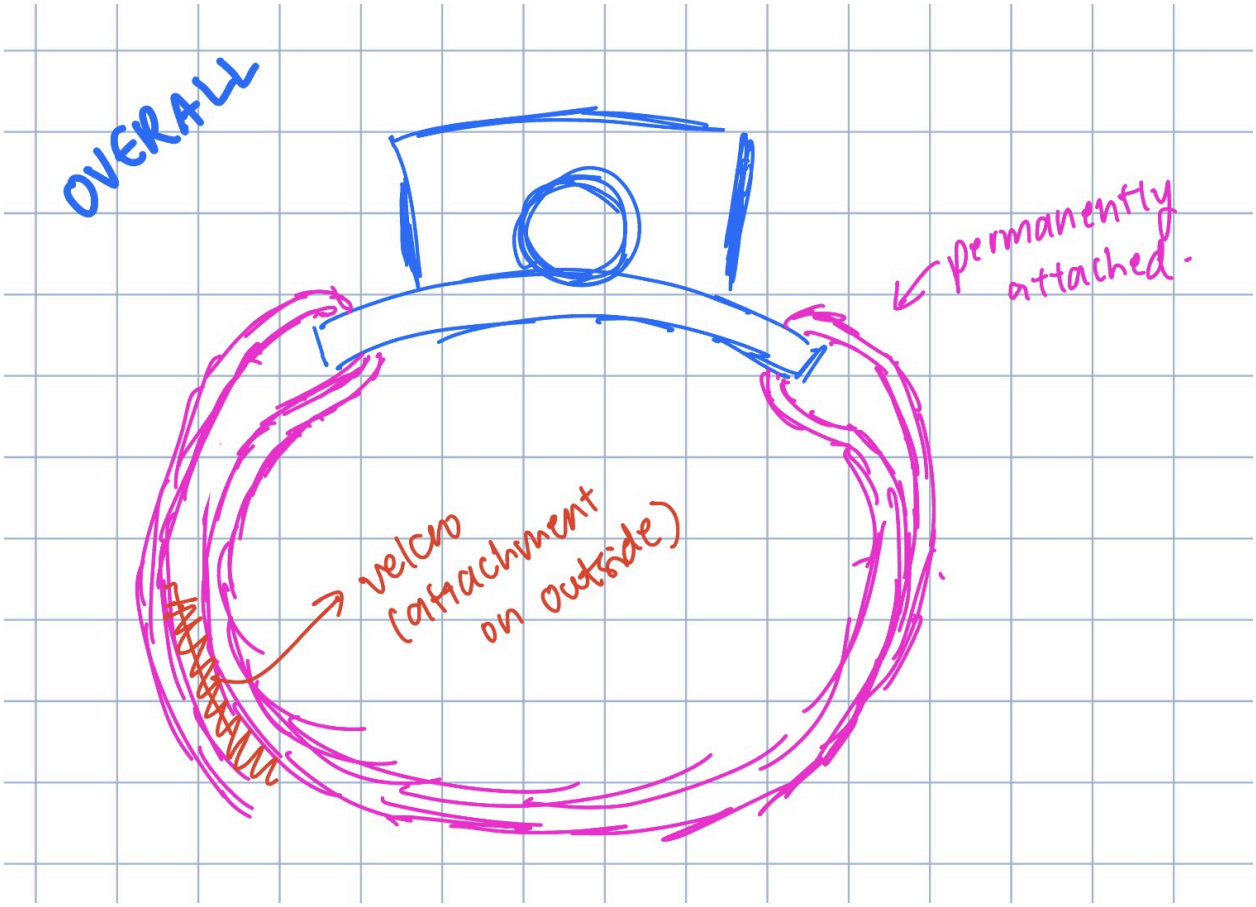

Figure 1. Initial prototyping of arm band. (In blue) Top plate with rocker motor. (In pink) Neoprene fabric arm band. Permanently attached on the right side, (In red) velcro attachment on the left side to adjust for arm circumference and comfort.

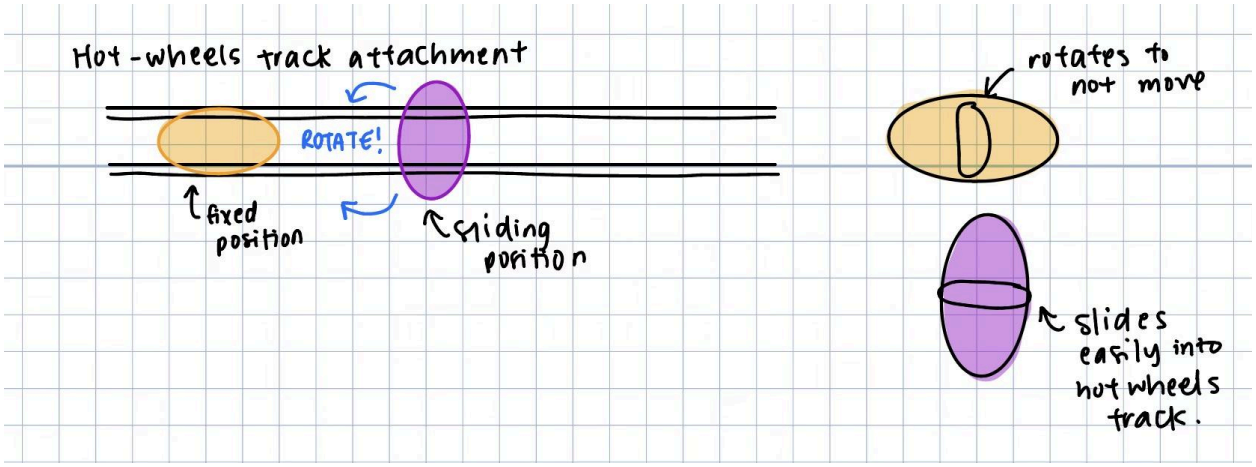

Figure 2. Prototype for adjustability of vibration motors. If arm circumference is variable, spacing of vibration motors must be adjustable as well. This idea was initially disregarded due to concerns with the comfort of a “hot-wheels track” design, but was later revisited by future integration teams.

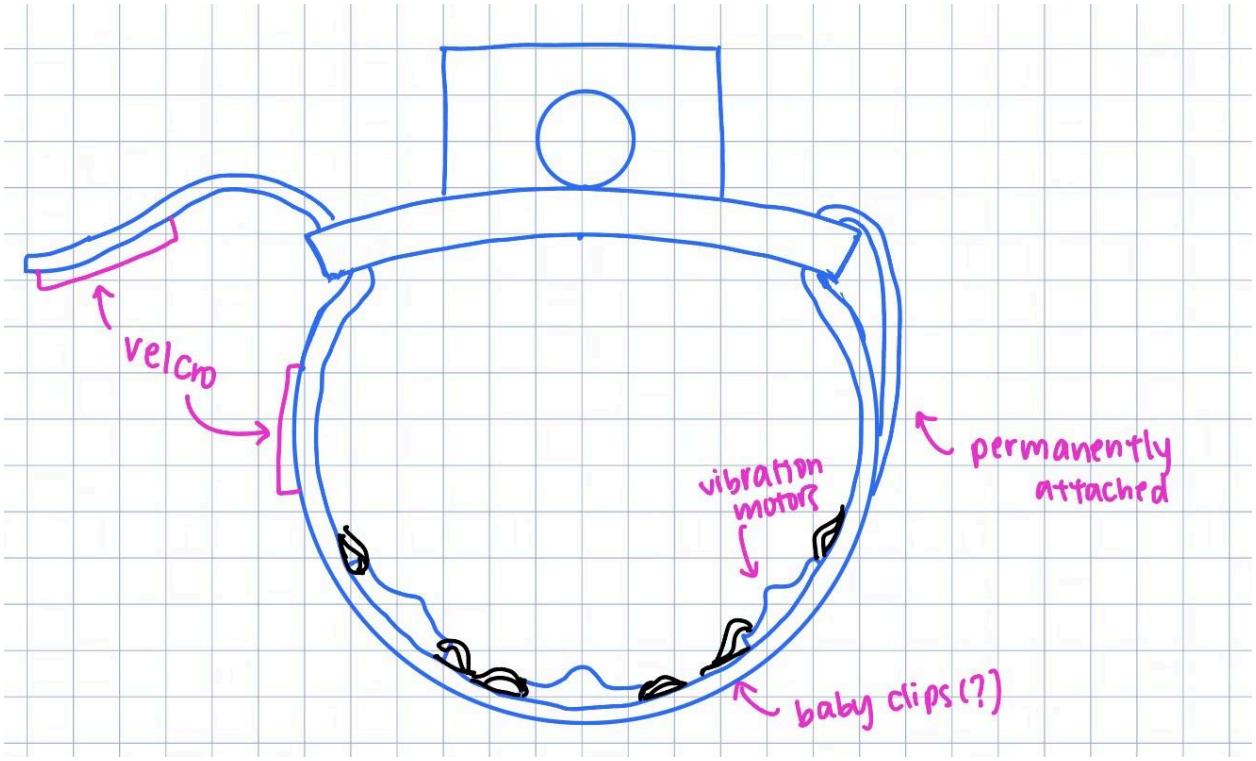

Figure 3. Redrawn initial prototype. Baby clips were the current idea for the attachment and adjustability of the vibration motors.

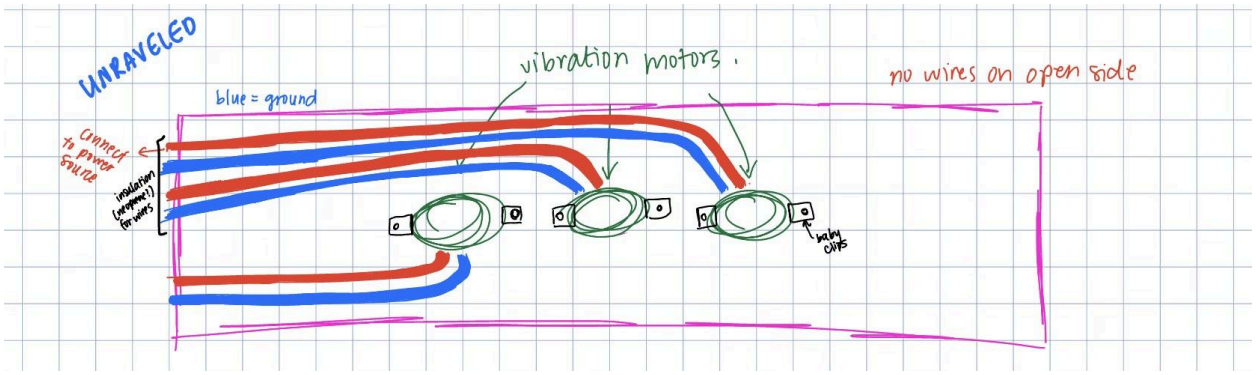

Figure 4. Unraveled drawing of initial prototype. Potential wire casings included.

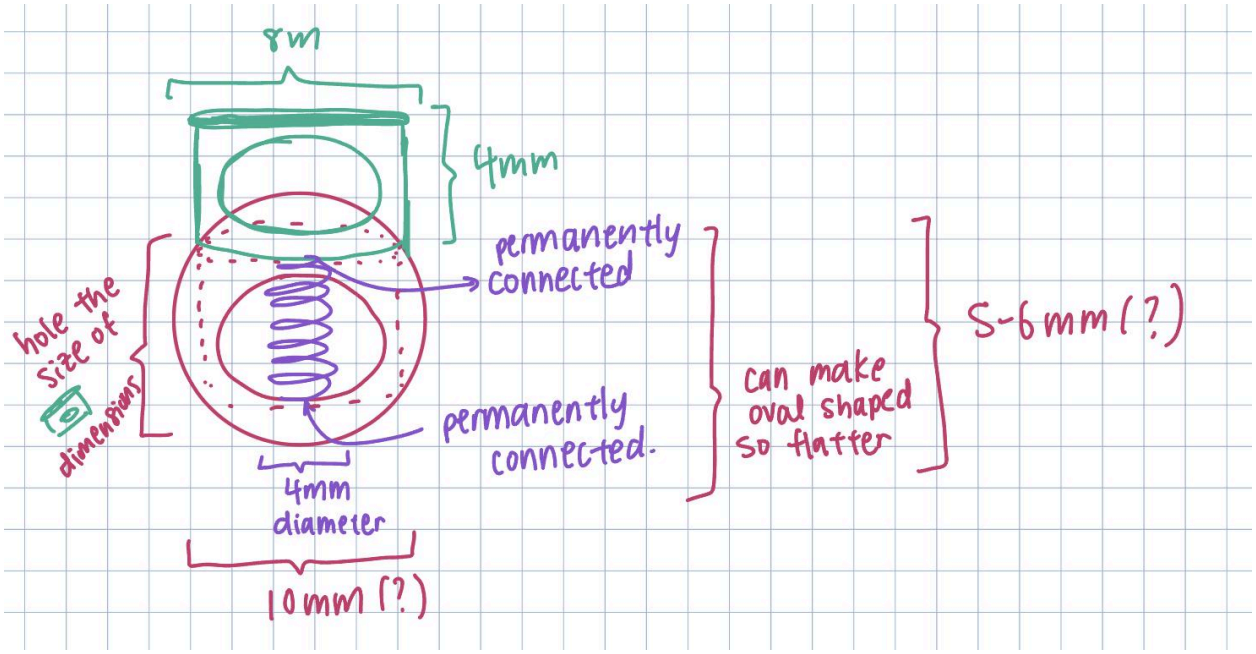

Figure 5. Plan for spring-cord lock mechanism.

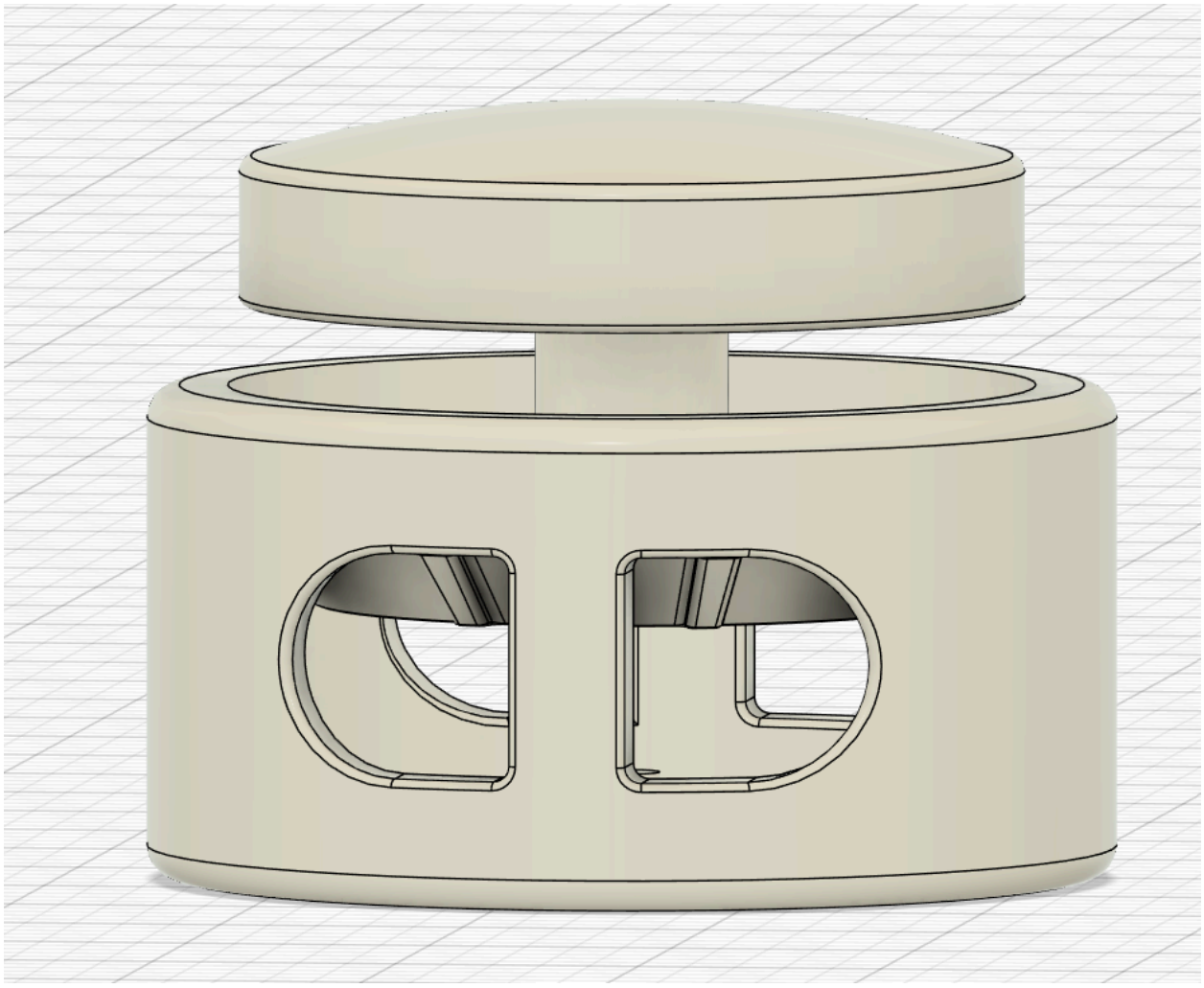

Figure 6. Finalized CAD model for spring-cord lock mechanism in order to secure and adjust vibration motors.