**Preliminary Engineering Design Specification Table**

**Team 1**

**October 27, 2023**

Miguel Cruz

Brayden Chipman

Ashwin Halepet

Vance Padilla

| Metrics | Units | Corresponding User Needs | Range | Target Value | Direction of Improvement |
| --- | --- | --- | --- | --- | --- |
| Size | Centimeters | User Friendliness | 2cm-30.48cm | 16.0 cm x 8.0 cm x 4.0 cm | To be minimized to a point |
| Price | US Dollar | Affordability | $14-$984 | $~300 | To be minimized |
| Remote Connectivity | Binary | User Friendliness | N/A | Yes | N/A |
| Notifications | Binary | Accessibility | N/A | Yes | N/A |
| Method of Attachment | Type | Longevity | Adhesive or Installation | Acrylic Based Adhesive | N/A |
| Strength of Attachment | N | Durability | 100-200 | 135 | N/A |
| Strength of Material | GPa | Durability | 0.8 to 96.5 | 69 (6061 Aluminum) | To be maximized |
| User Log | Binary | Records | N/A | Yes | N/A |
| Weight | kg | User Friendliness | 1 kg to 4 kg | 2 kg | To be minimized |