Tiltable Cap

Exetendable Reel
Lufkin CS8506 Metal Tape Measure

Microcontroller
ESP 8266 + DRV8833 Motor Driver

3D Printed Shaft

DC Motor
Pololu 1000 : 1 HP 6V Geared Motor
12 CPR Magnetic Rotary Encoder

Battery
3.7V 350mAh LiPo Battery + TP4056

Mobile Robot
Sony TOIO™