**Ping Pong Ball Balancer**

Created by The Chupacabras:

Kenae Brooks, Isaiah Berry, Jack Chisholm, Oliver Anderson

**Bill of Materials**

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| Part | Value | Device | Package | Description | Digikey Part # |
| Barrel Jack |  | 2.1MM Jack | 2.1MMJACKTHM | PJ-102A | #CP-102A-ND |
| C1 | 18pf | C-EUC0805 | C0805 | CAPACITOR, European symbol | #399-8030-2-ND |
| C4 | 18pf | C-EUC0805 | C0805 | CAPACITOR, European symbol | #399-8030-2-ND |
| C5 | 18pf | C-EUC0805 | C0805 | CAPACITOR, European symbol | #399-8030-2-ND |
| C6 | 18pf | C-EUC0805 | C0805 | CAPACITOR, European symbol | #399-8030-2-ND |
| C7 | 18pf | C-EUC0805 | C0805 | CAPACITOR, European symbol | #399-8030-2-ND |
| D2 |  | D-FILL-MLL-34 | MELF-MLL34 | DIODE | #497-3788-2-ND |
| HCSR04 |  | PINHD-1X4 | 1X04 | PIN HEADER | #609-6454-1-ND |
| IC1 | 7805T | 7805T | TO220H | POSITIVE VOLTAGE REGULATOR | #497-1443-5-ND |
| ISP1 | AVRISP-6 | AVRISP-6 | AVRISP | AVR ISP HEADER | #1528-1189-ND |
| LCD1 |  | PINHD-1X16 | 1X16 | PIN HEADER | #609-6454-1-ND |
| LED2 |  | LEDSML0805 | SML0805 | LED | #28-LSM0805463VCT-ND |
| R1 | 10k | R-EU\_R0805 | R0805 | RESISTOR, European symbol | #311-10.0KCRTR-ND |
| R3 | 10k | R-EU\_R0805 | R0805 | RESISTOR, European symbol | #311-10.0KCRTR-ND |
| R4 | 10k | R-EU\_R0805 | R0805 | RESISTOR, European symbol | #311-10.0KCRTR-ND |
| R5 | 1k | R-EU\_R0805 | R0805 | RESISTOR, European symbol | #311-1.0KCRTR-ND |
| S1 | Encoder-Switch | ROTARY\_ENC\_PLAIN |  | Rotary Encoder w/ Select Switch | #PEC12R-4225F-S0024-ND |
| Servo Header |  | PINHD1X3 | 1X03 | PIN HEADER | #609-6454-1-ND |
| U2 |  | ATMEGA328PB-AUR |  |  | #ATMEGA328PB-AURCT-ND |
| VR1 |  | POTENTIOMETER-PTH-9MM-1/20W-20% POT-PTH-ALPS |  |  | #987-1709-ND |
| Y1 |  | CRYSTALSMD-HC49UP | HC49UP | CRYSTALS (GENERIC) | #1923-1522-1-ND |