Kevin Martz’s Student Circuit Board

Parts List & Schematic

**Itemized Budget – Designed for a total of 160 boards**

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| --- | --- | --- | --- | --- |
| Item | Qty | Price | Subtotal | Supplier |
| Plywood, 11/32", 4' x 8' | 5 | $22.53 | $112.65 | Home Depot |
| 6-32 1 1/2" Oval head Phillips machine screw, 1000 | 5 | $40.16 | $200.80 | Amazon |
| 6-32 Washer, 1000 | 5 | $16.99 | $84.95 | Amazon |
| 6-32 hex nut, pack of 100 | 42 | $8.00 | $336.00 | Amazon |
| Capacitor, 1000 uF, set of 5 | 32 | $5.99 | $191.68 | Amazon |
| Resistors, Variety Pack | 16 | $9.99 | $159.84 | Amazon |
| Photoresistor, pack of 100 | 2 | $7.99 | $15.98 | Amazon |
| LED, 120 degree viewing angle, 100 | 4 | $5.50 | $22.00 | TBD |
| 2x C battery holder w leads | 160 | $1.00 | $160.00 | eBay |
| SPDT Knife Switch | 160 | $3.00 | $480.00 | eBay |
| DC Piezo Active Buzzer w leads, 6 | 27 | $9.89 | $267.03 | Amazon |
| Solder, 0.6 mm lead-free | 2 | $10.99 | $21.98 | Amazon |
| Jumper Wire, 6" 100 pcs | 16 | $7.29 | $116.64 | Amazon |
|   |   |   |   |   |
| Estimated Tax | 1 |   | $120.00 |   |
| Estimated Shipping | 1 |   | $50.00 |   |

**Total estimated budget: $2339.55**

