

| Engineer Your World - Engineering Applications of Computer Science Course - 2024 Add-on Kit Contains: | Small Kit Quantity | Medium Kit Quantity | Large Kit Quantity |
|--|-------------------------------|--------------------------------|-------------------------------|
| MakerBeam Starter Kit | 1 | 2 | 3 |
| microSD card with adaptor for microSD to SD | 4 | 7 | 11 |
| 6700mAh Portable Charger External Battery Pack (5V 2A output) | 2 | 4 | 6 |
| MakerBeam brackets, 90-deg, 4-hole (12 pack) | 1 | 2 | 3 |
| Continuous rotation servomotor, SM-S4303R | 2 | 4 | 6 |
| MCP3008 I/P - 8-Channel 10-Bit Analog to Digital Converter | 2 | 4 | 6 |
| 6" Jumper wires, M-F (100 pack) | 1 | 2 | 3 |
| 6" Jumper wires, M-M (100 pack) | 1 | 1 | 1 |
| 12" Jumper wires, M-M (10 pack) | 1 | 2 | 3 |
| 220 ohm resistors (100 pack) | 1 | 1 | 1 |
| 3.3K ohm resistors (100 pack) | 1 | 1 | 1 |
| 4.7K ohm resistors (100 pack) | 1 | 1 | 1 |
| Light-dependent resistor, 4K-11K ohm @ 10 lux, 5.1mm (25 pack) | 1 | 1 | 1 |
| Bright White LEDs (25 pack) | 1 | 2 | 3 |
| Assorted color LEDs (20 pack) | 1 | 2 | 3 |
| Piezo speaker | 2 | 4 | 6 |
| Ultrasonic distance sensor, HC-SR04 | 8 | 16 | 24 |
| Breadboard- White, 400 tie pts | 5 | 10 | 15 |
| Mini breadboard, 170 tie pts | 3 | 6 | 9 |
| Rubber bands, pack of various sizes | 1 | 1 | 1 |
| Raspberry Pi 4 Model B | 4 | 8 | 12 |
| Hot glue, 4", dual temp, 24 pack | 1 | 2 | 3 |
| Fabric, stretch (nylon/cotton) 1 yd | 2yd | 4yd | 6yd |
| Braided Elastic bands, black, 3/4" wide x 3 yards | 1 | 1 | 1 |
| Velcro, 2 sided, 0.75", black, sew-on 30" | 2 | 4 | 6 |
| Miniature Snap Action Switches with Long Lever - Model 30-2040 | 12 | 21 | 33 |
| 3/32" Heat Shrink Tubing (4 feet) | 2 | 4 | 6 |
| USB C Cable 3.0 | 4 | 8 | 12 |
| Raspberry Pi 4 HDMI Cable | 4 | 8 | 12 |