| Name | Quantity | Price | Vendor | Purpose | |
|---|---|---|---|---|---|
| ATmega328PU | 1 | $2.13 | Digi-Key | Central microcontroller for interpretting app signals and control logic | $2.13 |
| Motor Driver | 2 | $3.68 | Digi-Key | Motor driver chips to control speed and direction of motor rotation | $7.36 |
| 16 MHz Crystal Oscillator | 1 | $0.69 | Digi-Key | Used by the ATmega chip to determine internal clock | $0.69 |
| 10 kOhm Resistor | 1 | $0.04 | Digi-Key | Resistor between reset pin of ATmega and 5V | $0.04 |
| 22pF Ceramic Capacitors | 2 | $0.23 | Digi-Key | Capacitors which tie crystal oscillator to GND | $0.46 |
| 5V Voltage Regulator | 2 | $0.62 | Digi-Key | Regulators for 5V needed by ATmega and motor drivers | $1.24 |
| 0.33 uF Ceramic Capacitors | 2 | $0.23 | Digi-Key | Stabalize input voltage from batteries for voltage regulators | $0.45 |
| Toggle Switch DPDT | 1 | $2.95 | Digi-Key | Switch between battery pack and PCB | $2.95 |
| AA Batteries (20 pack) | 8 | $0.85 | Amazon | Power source for entire robot | $6.79 |
| Battery Holder with On/Off Switch | 1 | $8.00 | Amazon | Configures 8 AA batteries to about around 12V | $8.00 |
| 16pos IC Dip Socket | 2 | $0.83 | Digi-Key | Solder sockets for motor drivers | $1.66 |
| 28pos IC Dip Socket | 1 | $1.44 | Digi-Key | Solder sockets for ATmega | $1.44 |
| HM-10 Bluetooth Module | 1 | $10.59 | Amazon | bluetooth module for communication between ATmega and phone application | $10.59 |
| Ultrasonic Sensor HC-SR04 x 4 | 1 | $11.79 | Amazon | Package of 4 HC-SR04 ultrasonic sensors | $11.79 |
| Wire Set | 1 | $15.83 | Amazon | Wire connection between motors, ultrasonic sensors, and bluetooth module to PCB | $15.83 |
| Chassis Kit (Chassis, 4 DC TT Motors, 4 Wheels) | 1 | $26.42 | Amazon | Main robot body, motors, and wheels | $26.42 |
| M3-0.5 X 25MM Screws | 1 | $3.27 | Amazon | Screws to attaching standoffs to PCB and Chassis | $3.27 |
| M3 X 60MM Screw Spacers | 1 | $11.76 | Amazon | Standoffs for attachment of PCB to robot chassis | $11.76 |
| PCB Print | 1 | $6.65 | ALLPCB | PCB print from outsourced comapny | $6.65 |
| Total Cost of Production | $119.52 | | | | |