

Bill of Materials (BOM)

Component	Quantity	Unit Price (BDT)	Total (BDT)	Notes
ESP32 Devkit V1 (30-pin)	1	800	800	Main microcontroller with WiFi & Bluetooth
TB6612FNG Motor Driver	1	300	300	Dual H-Bridge motor driver
MP1584 Adjustable Buck Converter	2	150	300	Step-down voltage regulator
3V DC Motors	2	250	500	For vehicle movement
LiPo Battery 2S	1	1300	1300	Main power source
HuskyLens AI Camera	1	12000	12000	Vision & AI processing
Wheel	4	70	280	Movement
Jumper Wires & Connectors	1	150	150	For wiring
Switch (On/Off)	1	50	50	Power control
PCB / Perfboard / Mounting Board	1	150	150	Mounting components
Metal Gear Servo	1	210	210	For precise angle control + steering
Gyro Sensor (MPU9250)	1	605	605	accelerometer + gyroscope + magnetometer
Misc. resistors, capacitors, wiring + PVC board	-	100+80	100	Supporting electronics And chassis
Mini digital led voltage meter	1	90	90	Measuring voltage
Ultrasonic sensor (HC-SR04)	3	99	297	Detect walls

Estimated Total Project Cost: ~17,200 – 17,400 BDT