Hardware Components Needed

Team A

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| **Hardware name** | **Quantity** | **Specifications** | **Price** | **Total** |
| 1. ESP32 w/ camera (ESP32-CAM-CH340) | 1 | •Product model: HW-818  •Working voltage: DC 5V  •Product size: 27\*48.5\*4.5mm/1.06\*1.9\*0.17”  •SPI Flash: Default 32Mbit •RAM: Internal 520KB + External 4MPSRAM  •Bluetooth: Bluetooth 4.2 BR/EDR and BLE standards  •Wi-Fi: 802 II b/g/n/e/i  •Support interfaces: UART, SPI, I2C, PWM  •Supporting TF Card: Maximum Supporting 4G  •IO port: 9  •Serial port rate: default 115200 BPS  •Image output format: JPEG (OV2640 only), BMP, GRAYSCALE •Spectrum range: 2412-2484 MHz •Antenna form: board PCB antenna, gain 2dBi •Transmitting power: •802.l1b: 17 + 2dBm (1lMbps) •802.l1g:14+2dBm (54Mbps) •802.l1n:13+2dBm (MCS7) | PHP 499.00 | PHP 499.00 |
| 1. Standard Servo Motor – **SG5010** | 3 | * Manufacturer: * TowerPro Power: 4.8V – 6V DC max (5V works well) * Average Speed: 0.2sec/60degree (@ 4.8V), 0.16sec/60degree (@ 6V) Weight: 39g (1.37 oz) * Torque: At 5V, 5.5kg-cm / 76oz-in, and at 6V 6.5kg-cm / 90oz-in. * Size mm: (L x W x H) 40 x 20.0 x 38 mm * Size in: (L x W x H) 1.60x.79×1.50 Spline Count: 25 | PHP 149.00 | PHP 447.00 |
| 1. IR sensor - TCRT5000 | 2 | * Detection distance: 0 – 4 cm (black and white line sensors), 0 – 5 cm (adjustable distance detection) * Input voltage: 3.0 V – 5.5 V | PHP 49.00 | PHP 98.00 |

**Total (excluding shipping fee): PHP 994.00**