Thomas Chang N01040694

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| Material Estimate | Cost | Notes |
| a) A microcomputer composed of a quad-core Windows 10 IoT core compatible Broadcom BCM2836 SoC with a 900MHz Application ARM Cortex-A7 32 bit RISC v7-A processor core stacked under 1GB of 450MHz SDRAM, 10/100 Mbit/s Ethernet, GPIO, UART, I²C bus, SPI bus, 8 GB of Secure Digital storage, a power supply, and a USB Wi-Fi adaptor. (Raspberry PI 3 ) | <80$ | Various resellers , canadarobitx , newegg.ca , amazon.ca |
| IP Camera | 40 $ | Choice of onboard camera module to perform less cpu intensive work  Reseller from Canada Robotix |
| Peripherals with cables | < 10 $ | Most should be some standard home items |
| Actuators |  |  |
| Hardware, etc. |  |  |
|  |  |  |
| **HC-SR04**  **Ultrasonic sensor** | 15$ | <https://www.adafruit.com/products/164> |
| Phase 1 Total | < 200 $ |  |
| Phase 2 |  |  |
| Additional materials to improve material and casing | TBD |  |
| Phase 3 |  |  |
|  | TBD |  |