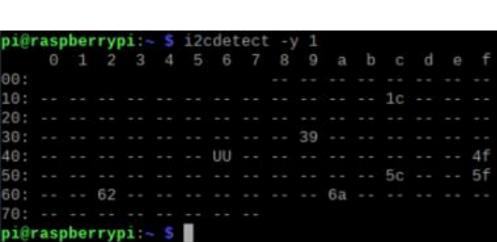
## Person Sensor by Useful Sensors Aaron Morris Basco Jara





I2C address: 0x62

## Bill Of Materials ₽

Part	Price in CAD	Quantity	Shipping Cost	Tax	Subtotal Paid
2N4124 PNP Transistor from Parts kit	0.70	1			0.70
5mm Red LED from Parts kit	0.26	1			0.26
220 Ohm Resistor from Parts kit	0.02	1			0.02
2.2 kOhm Resistor from Parts kit	0.02	1			0.02
Raspberry Pi Extreme Kit	144.95	1			144.95
SD card reader	7.91	1			7.91
SenseHat	43.16	1			43.16
Network adapter	20.99	1			20.99
Ethernet cable	9.49	1			9.49
Person Sensor	18.99	1	8.00	2.47	21.46
Stacking Header	4.24	1	8.00	0.55	4.79
Qwiic socket, cables	13.69	1	8.00	1.78	15.47
16mm Standoff, M2.5 Screws	1.37	4	8.00	0.72	6.20
Leadfree Solder, PCB	102.73	1			8.54
3D Printing, Assembly	0.15/gram	TBD			0.15/gram
Totals					283.96+



## Reading/Writing to Sensor/Effector

```
box_confidence': 99, 'box_left': 117, 'box_top': 67, 'box_right': 164, 'box_bottom': 144, 'id_confidence': 0, 'id': -1, 'is_facing': 1}]
 box_confidence': 69, 'box_left': 81, 'box_top': 151, 'box_right': 101, 'box_bottom': 183, 'id_confidence': 0, 'id': -1, 'is_facing': 0}]
 'box_confidence': 99, 'box_left': 109, 'box_top': 49, 'box_right': 154, 'box_bottom': 133, 'id_confidence': 0, 'id': -1, 'is_facing': 1}]
 box_confidence': 99, 'box_left': 112, 'box_top': 58, 'box_right': 153, 'box_bottom': 133, 'id_confidence': 0, 'id': -1, 'is_facing': 1}'
 box_confidence': 99, box_left': 109, box_top': 67, box_right': 150, box_bottom': 140, 'id_confidence': 0, 'id': -1, 'is_facing': 1}
 box_confidence': 83, 'box_left': 148, 'box_top': 65, 'box_right': 190, 'box_bottom': 133, 'id_confidence': 0, 'id': -1, 'is_facing': 1}'
 box_confidence': 99, 'box_left': 157, 'box_top': 87, 'box_right': 194, 'box_bottom': 149, 'id_confidence': 0, 'id': -1, 'is_facing': 1}
 box_confidence': 99, 'box_left': 157, 'box_top': 87, 'box_right': 197, 'box_bottom': 152, 'id_confidence': 0, 'id': -1, 'is_facing': 1}
 box_confidence': 98, 'box_left': 162, 'box_top': 94, 'box_right': 198, 'box_bottom': 149, 'id_confidence': 0, 'id': -1, 'is_facing': 1}]
 'box_confidence': 63, 'box_left': 112, 'box_top': 122, 'box_right': 141, 'box_bottom': 170, 'id_confidence': 0, 'id': -1, 'is_facing': 1}]
 box confidence: 99, 'box left': 73, 'box top': 81, 'box right': 113, 'box bottom': 145, 'id confidence': 0, 'id': -1, 'is facing': 1}]
 box_confidence': 69, 'box_left': 53, 'box_top': 90, 'box_right': 93, 'box_bottom': 154, 'id_confidence': 0, 'id': -1, 'is_facing': 1}]
 'box_confidence': 99, 'box_left': 70, 'box_top': 80, 'box_right': 113, 'box_bottom': 145, 'id_confidence': 0, 'id': -1, 'is_facing': 1}]
 box_confidence': 99, 'box_left': 77, 'box_top': 85, 'box_right': 120, 'box_bottom': 152, 'id_confidence': 0. 'id': -1. 'is_facing': 1}]
{'box confidence': 99, 'box left': 126, 'box top': 65, 'box right': 166, 'box bottom': 133, 'id confidence': 0, 'id': -1, 'is facing': 1}]
```

## Course Knowledge

- How to use a multimeter (Tech101 Electric Circuits)
- How to read a resistor (Tech101 Electric Circuits)
- The basics of creating a circuit to light up a led (Tech101 Electric Circuits)
- How to test if a circuit is shorted (Tech101 Electric Circuits)
- Connect to the Pi from VNC viewer (Ceng153 Programming in C)
- Use WinScp to move files to the Pi (Ceng153 Programming in C)
- The basics of programming (Tech104 Programming Fundamentals)