Reference Manual

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| **S.N** | **Changes** | **Date** |
| 1. | Drafted | 19 November, 2017 |

Interaction Block diagram

Arduino

Raspberry Pi

Sensors

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Motor Drive

LED

1. Sensors:

--Details on sensors used—Output type—Threshold etc

1. Arduino:
   1. Board Description:

* *Type*: Arduino MEGA 2560. <https://www.arduino.cc/en/Main/arduinoBoardMega2560/>
* *Schematic*: <https://www.arduino.cc/en/uploads/Main/arduino-mega2560_R3-sch.pdf>
* *Reference*: <https://www.arduino.cc/reference/en/>
  1. Microcontroller:
* *Type:* ATMEGA2560
* *Pin configuration*: <http://www.atmel.com/Images/Atmel-2549-8-bit-AVR-Microcontroller-ATmega640-1280-1281-2560-2561_datasheet.pdf>

1. LEDs:

--Specifications of LEDs controlled by Arduino--

1. Motors:

--Types and specification of each motor--

1. Raspberry Pi:

--Specification—some details on what it would run and how user interfaces with it--