BreadBoard Prototype – Stoplight chart

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| Project | Function 1 | Function 2 | Function 3 | Function 4 | Function 5 | Function 6 |
| Autobar | Relay (2) | OLED display | Manual Buttons | Pump circuitry |  | WiFi |
| BlackBox | Accelerometer and Gyro | Accelerometer, Gyro and Temp (X2) | Microphone | Battery Voltage |  | WiFi |
| Dual Mode Car | Accelerometer and Gyro | Angular position | Ultrasonic | H-Bridge | Stop behavior for obstacles | WiFi |
| Electric Fun Car | H-bridges (x2) | Micro control of speed and direction | Built-in Accelerometers and Gyro | Compass | Digital IO expansion pins | WiFi |
| Fail safe lock |  |  |  |  |  | WiFi |
| LED Display | 1 LED Matrix displays message from Micro | Micro controls LED Matrix ON/OFF | IR connected |  |  | WiFi |
| MidiVerter | Hardware MIDI IN | Power supply | Hardware MIDI THRU | RC filter PWM DAC |  | WiFi |
| Security Lock | One RFID | Multiple RFID | Keypad | Red/Green LEDs |  | WiFi |
| Smart Coffee | Water level sensor | Buzzer | Relay | Combined functionality |  | WiFi |
| Switchy | Position switches | Servo | Battery percentage | ON/OFF GUI button |  | WiFi |