Pikelet Hardware Documentation

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| **Socket Mnemonic** | **Socket Pins (BOARD)\*\*** | **Socket Pins (BCM)\*\*** | **Socket Functions** |
| D1\* SPI ONLY | 19, 26, 21, 23 | 10, 8, 9, 11 | SPI, PWM |
| D2 | 22, 18 | 25, 24 | Digital, PWM |
| D3 | 33, 35 | 13, 16 | Digital, PWM |
| D4 | 3, 5 | 2, 3 | Digital, PWM, I2C(0) |
| D5 | 29, 31 | 5, 6 | Digital, PWM |
| D6 | 40, 37 | 21, 26 | Digital, PWM |
| D7 | 38, 35 | 20, 19 | Digital, PWM |
| D8 | 8, 10 | 14, 15 | Digital, PWM, UART |
| A1 | 19, 21, 11, 26 | MOSI:10, MISO:9, CLK:11, CE1:7 | Analog Input |
| M1 | 11, 7 | FWD: 17, BKW: 4 | Motor, HCO\* |
| M2 | 15, 13 | FWD: 22, BKW: 27 | Motor, HCO\* |
| M3 | 16, 12 | FWD: 23, BKW: 18 | Motor, HCO\* |
| SPI0 | D1 | D1 | SPI |
| SPI1 | A1 | A1 | SPI |

\*HCO stands for High Current Output. These ports are driven by a H-Bridge coming from an external, regulated, 5v power source.

\*\*Pins are numbered 1 through 6, horizontally, then vertically (top left=1, top right, 2, mid left=3, etc). These numbers correspond to the pinouts on the plugs. Hole in the plug to the left

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| **Peripheral Type** | **Socket Required** |
| Ultrasonic Sensor | Digital |
| Light Sensor | Digital |
| Sound Sensor | Analog |
| Servo | PWM |
| Motor | Motor |
| RFID | UART |
| Accelerometer | I2C |

