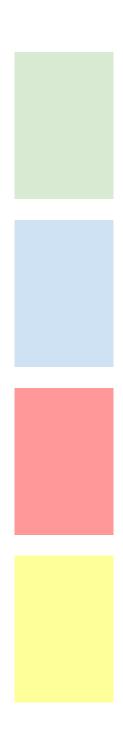
Microprocessor Prototyping

Section Title	Time (Min)
Section 1 Introduction to Arduino	120
1.1 Introductory Q&A session	15
1.2 Using the Arduino IDE & Hello World	30
1.3 Introduction to Arduino Programming	30
1.4 Reading and Writing from the Serial Port	20
1.5 Parsing Commands from Serial Data	25
Going Further: Add more commands	
Section 2 Working With Analog Devices	120
2.1 Basic Bread-boarding / Diagram reading Skills	15
2.2 Wiring and reading from Light Sensor	30
2.3 Flashing an LED	30
2.4 Nightlight Coding	20
2.5 Seven Segment Display	25
Going Further: Write Seven Segment Library	
0 (' 0W 1' W'') 100 D D .	400
Section 3 Working With I2C Bus Devices	120
3.1 Introduction to the I2C bus	15
3.2 Wire the 9DOF	20
3.3 Programming the 9DOF	35
3.4 Wire the OLED	20
3.5 Program the OLED	30
Going Further: Live Data View	
Section 4 Section 4 - Working With I2C Bus Devices	120
4.1 Introduction to the SPI bus	15
4.2 Wire the Temp Sensor	25
	25
4.3 Programming the Temp Sensor	23
4.3 Programming the Temp Sensor4.4 Wire the SD	25
4.4 Wire the SD	
	25





Arduino Uno



Arduino USB



Breadboard



LEDs



Resistors



Hookup Wire



Strippers



Light Sensor



LED Array



Pressure/Temp



OLED



9DOF



SD Socket



SD Card

https://www.adafruit.com/products/50	24.95	
https://www.adafruit.com/products/62	3.95	
https://www.adafruit.com/products/239	5.95	
https://www.sparkfun.com/products/12062	2.95	
https://www.sparkfun.com/products/11507	0.95	
https://www.sparkfun.com/products/11367	16.95	

https://www.sparkfun.com/products/1263(9.95	
https://www.adafruit.com/products/1384	3.95	
https://www.sparkfun.com/products/13795	8.95	
https://www.adafruit.com/products/2652	19.95	
https://www.adafruit.com/products/931	17.5	

https://www.sparkfun.com/products/13944 14.95

https://www.sparkfun.com/products/544 3.95

https://www.sparkfun.com/products/13833 12.95

TOTAL: 147.85