

COMPONENT LIST:

Component	Component Link	Component library	Quantity	Cost per unit
mbed - LPC1768 Development Board	https://www.amazon.co.uk/gp/product/B004RP3P9M/ref=ox_sc_saved_title_3?smid=AHJUZYBLY5C2JK&psc=1	---	1	£55.00
Single core wires	https://www.amazon.co.uk/gp/product/B07V5FVSYL/ref=ox_sc_saved_title_7?smid=A1NT6WQ8ILVWN6&psc=1	---	1	£14.69
Tactile Push Button Switch	https://www.amazon.co.uk/gp/product/B07RZNVKZ5/ref=ox_sc_saved_title_8?smid=A2RNB4KTLX25K&psc=1	---	1	£7.99
Power Jack Adapter Connector	https://www.amazon.co.uk/gp/product/B078W4N9WK/ref=ox_sc_saved_title_2?smid=A2HUKLGHWW8VQE&psc=1	---	1	£9.99
Resistor Kit Assortment, 0 Ohm-1M Ohm	https://www.amazon.co.uk/gp/product/B072HR25LW/ref=ox_sc_saved_title_4?smid=AZF7WYXU5ZANW&psc=1	---	1	£11.99
General Purpose Transistors Assortment Kit	https://www.amazon.co.uk/gp/product/B07T2VBBLV/ref=ox_sc_saved_title_5?smid=A3JM63OQAICKNV&psc=1	---	1	£8.99
Battery Holder	https://www.amazon.co.uk/gp/product/B01FYUUPGE/ref=ox_sc_saved_title_3?smid=A2P9PFGNVPPS3Q&psc=1	---	1	£7.99
HC-SR04 Ultrasonic Sensor Module	https://www.amazon.co.uk/Ultrasonic-RangeFinder-Distance-MEGA2560-Raspberry/dp/B089WBKL8F/ref=sr_1_3?dchild=1&keywords=Ultrasonic+Range+Finder&qid=1608238562&sr=8-3	https://os.mbed.com/components/HC-SR04/	1	£7.99
Light Emitting Diodes	https://www.amazon.co.uk/gp/product/B06X3VT6TD/ref=ox_sc_saved_title_1?smid=A1IX7WRB7J03LQ&psc=1	---	1	£5.39
HD44780 LCD Module displays	https://www.amazon.co.uk/HD44780-1602-Module-displays-characters/dp/B00WPOUCOI/ref=sr_1_1?dchild=1&keywords=HD44780+Text+LCD&qid=1608239267&sr=8-1	https://os.mbed.com/components/HD44780-Text-LCD/	1	£5.49
Breadboard	https://www.amazon.co.uk/gp/product/B01M0QJTI5/ref=ox_sc_saved_title_2?smid=AZF7WYXU5ZANW&psc=1	---	1	£8.99
HTU21D Temperature Humidity Sensor	https://www.amazon.co.uk/Temperature-Humidity-Breakout-1-5V-3-6V-Compatible/dp/B07Y83MR4X/ref=sr_1_5?dchild=1&keywords=SHT21+temperature+and+humidity+sensor&qid=1608239640&sr=8-5	https://os.mbed.com/components/HTU21D-Temperature-and-Humidity-Sensor/	1	£6.99
Adafruit FLORA Colour Sensor TCS34725	https://www.amazon.co.uk/Adafruit-Colour-Sensor-TCS34725-Onboard/dp/B0131RE5GS/ref=sr_1_1?dchild=1&keywords=Adafruit+TCS34725&qid=1608240636&sr=8-1	https://os.mbed.com/components/Adafruit-TCS34725-RGB-Color-Sensor/	1	£10.50
POLOLU-2457 QTR-3RC Reflectance Sensor Array	https://www.amazon.co.uk/gp/product/B06ZZGPC9N/ref=ox_sc_act_title_1?smid=A19GSHTT314PS3&psc=1	https://os.mbed.com/users/phillippsm/code/PololuQTRSensors/	1	£5.00
POLOLU-2836 Pololu 5V Step-Up/Step-Down Voltage Regulator	https://www.amazon.co.uk/POLOLU-2836-Pololu-Step-Up-Step-Down-Regulator/dp/B071D83BRK/ref=sr_1_2?dchild=1&keywords=POLOLU&qid=1608246389&sr=8-2	---	1	£7.73

Line follower sensor:

Product: POLOLU-2457 QTR-3RC Reflectance Sensor Array/FBA

Manufacturing listing: <https://www.pololu.com/product/2457/resources>

Amazon listing: https://www.amazon.co.uk/gp/product/B06ZZGPC9N/ref=ox_sc_act_title_1?smid=A19GSHTT314PS3&psc=1

Mbed library: <https://os.mbed.com/users/phillippsm/code/PololuQTRSensors/>

Project: <https://www.pololu.com/blog/307/david-and-fangs-dead-reckoning-robot-based-on-the-mbed-lpc1768>

Application: <https://www.pololu.com/docs/0J22>