



MIE444 Materials Kit - These kits are only to be used in the Myhal Light Fabrication Facility (4th floor)

Please check that all the items listed are present before using the kit. Otherwise, you may be held responsible for missing items.

Num	Items Checklist	Quantity
1	6V DC Gearhead Motors	2
2	Motor Driver L298N (square red pcb)	1
3	Stepper Motor (black, different from picture)	1
4	Stepper Driver DRV8825 (small pcb)	1
5	Servo MG996	1
6	Servo mini (SG90)	1
7	Arduino Uno	1
8	Arduino Mega	1
9	USB Cable for Arduino	1
10	Arduino shield protoboard	1
11	Wheel - Pololu 80mm x 10mm	1
12	Wheel - Pololu small 60mm x 10mm	1
13	Wheel - Standard for DC Motors (#1)	1
14	Wheel - Mecanum	1
15	Wheel - Omni	1
16	Wheel - Omni mini	1
17	Caster	1

Num	Items Checklist	Quantity
18	DC-DC Converter - LM2596 variable	1
19	DC-DC Converter - 6V fixed	1
20	IR black/white sensor	1
21	Gyroscope - MPU6050 (GY-521)	1
22	Magnetometer - HMC5883L (GY-273)	1
23	VL53L0X - time of flight distance sensor	1
24	Bluetooth - HC05	1
25	Wifi Module - ESP32 ESP8266	1
26	Battery Tamaya connector & switch kit	1
27	Ultrasonic - HC-SR04	2
28	Jumper wire - male to male	approx 10
29	Jumper wire - male to female	approx 10
30	Jumper wire - female to female	approx 10
31	3pin connector pair with cable	1
32	4pin connector pair with cable	1
33	2pin connector pair with cable	1
34	2pin feamle connector with cable	1
35	Breadboard	1