

16ELD002 - Group Project

Team base kit list

Subsystem	Item Description	Qty	Additional Comments
DaNI	Robot starter kit	1	
	12V Battery pack	2	supplied with connectors
	Battery charger unit	1	
	Ethernet cables	2	
Tri-Track Robot	Lynxmotion kit	2	Extra set supplied by Paul
	6V Battery pack	2	supplied with connectors
	12V Battery pack	1	supplied with connectors
	Battery charger unit	1	
	PS2 Remote Controller	1	X-Box controller
	USB (Male) - RS232 (Male)	1	
	RS232 (Male) - RS232 (Female)	1	
	PS2 Adapter	1	X-Box Adapter
	Wooden Block (Tri-Track Support)	1	
Pi kit	Raspberry Pi 2 Model B + SD Card + adapter	1	
	Card reader	1	
	USB extension + power supply	1	
	Cherry USB Keyboard	1	
	HP USB Laser Mouse	1	
	BELKIN Hi-Speed USB 2.0 4-Port Hub	1	
	USB 2.0 Wireless Network Adapter (Pi Wifi dongle)	1	
	USB(Male) to Micro USB (Male) adapter	1	
	HDMI to 25-Pin DVI adapter	1	
	Cnet AC Adapter	1	
	Logitech Webcam	1	
	Mbed NXPLPC & Battery/Charge Cable (12C26)	1	
Ni myRIO kit	RIO	1	
	Extension board	1	
	interface connections	1	
	USB Cable	1	
	AC Adapter	1	
Tool kit + Accessories	Assorted Screwdrivers, 2xflat, 2xstar	4	
	Assorted Allen Keys, 2x3/16", 7/64"	3	
	Wire Cutters	1	
	Side Cutters	1	
	Needle Nose Pliers	1	
	Assorted Spanners, 8mm, 2x5.5mm, 4mm, 1/4", 5/16",	6	
	Solder Sucker	1	

	Drill bit on handle, 3.5mm	1	
Extra Equipment	Linksys N600 router	1	Supplied by Paul
	X-box Kinect	1	Supplied by Paul
	Adafruit 16-Channel PWM / Servo HAT for Raspberry Pi	2	Ordered + ALL Received
	Tontec 150Mbps 11n USB Wifi Dongle Adapter	2	Ordered + ALL Received
	Raspberry Pi 2 Camer Module	2	Ordered + ALL Received
	X-Box Kinect Power Supply Lead	2	Ordered + ALL Received
	X-Box Extension Cable	1	Ordered + ALL Received
	Tarot ZYZ22 GoPro Brushless Camer Gimbal Controller	1	Ordered + ALL Received
	Quannum 2208 Precision Brushless Motor	2	Ordered + ALL Received
	Adafruit 2472 9_DOF IMU	3	Ordered + ALL Received
	Laser and Gimabl mount - Laser Holder	1	3D Printed
	Laser and Gimabl mount - Laser Platform	1	3D Printed
	Laser and Gimabl mount - Microcontroller Bottom	1	3D Printed
	Laser and Gimabl mount - Microcontroller Top	1	3D Printed
	Laser and Gimabl mount - Mounting Top	1	3D Printed
	Laserfuchs 70105643 Red Class 2 Laser	1	Ordered + ALL Received
	LDTR - 0015 PS2 Controller Joystick	1	Ordered + ALL Received
	STORM32 BGC V1.32 3 Axis Gimbal Controller	1	Ordered + ALL Received
	Turningy HD 2212 Brushless Gimbal Motor	2	Ordered + ALL Received