

MIK-I setup

Building C-C bonds using a cheap automated synthesis platform

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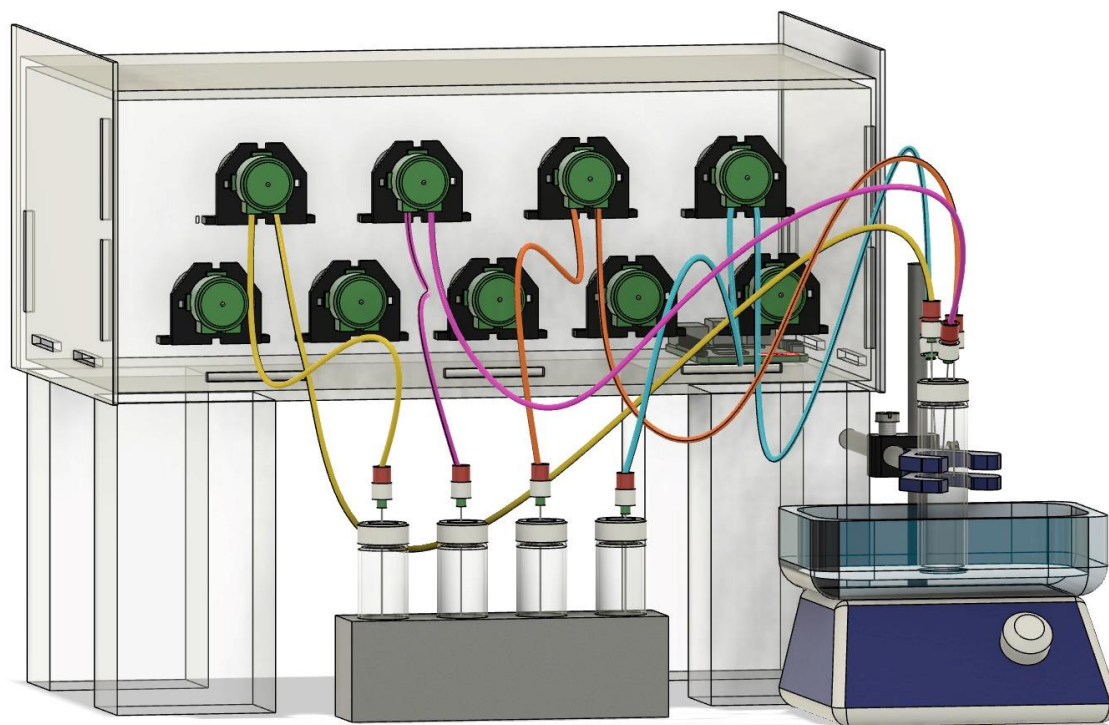


Figure 1. View general to MIK-setup

Electronic system

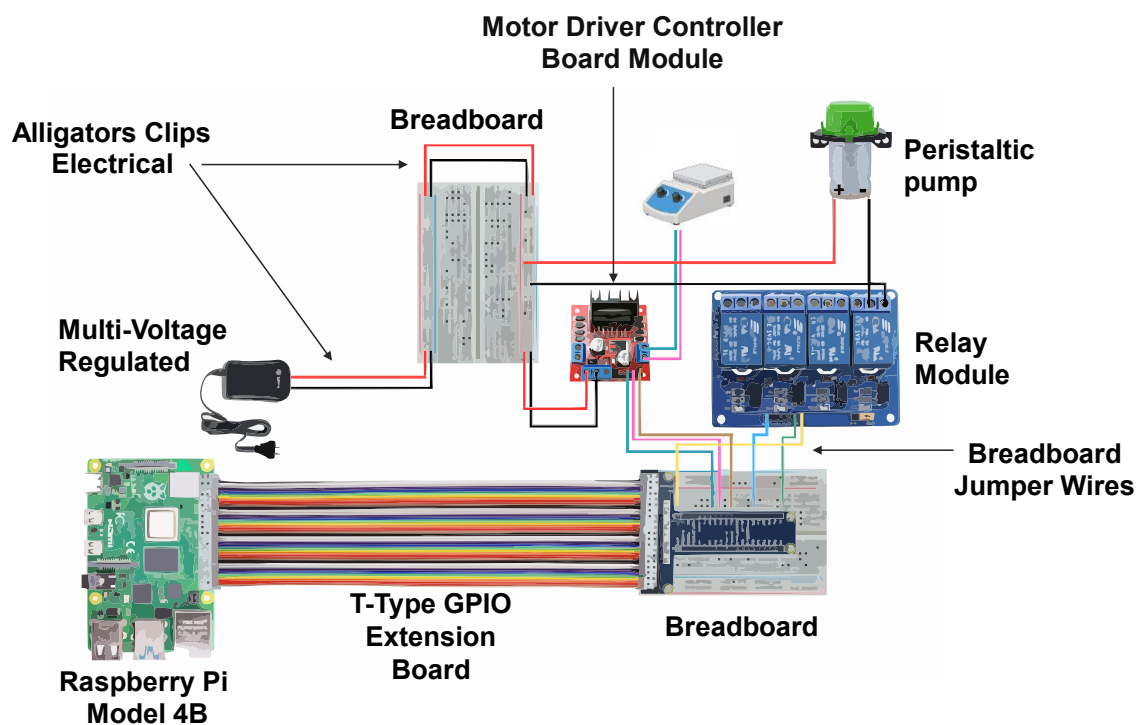


Figure 2. Electronic parts assembly.

Acrylic case

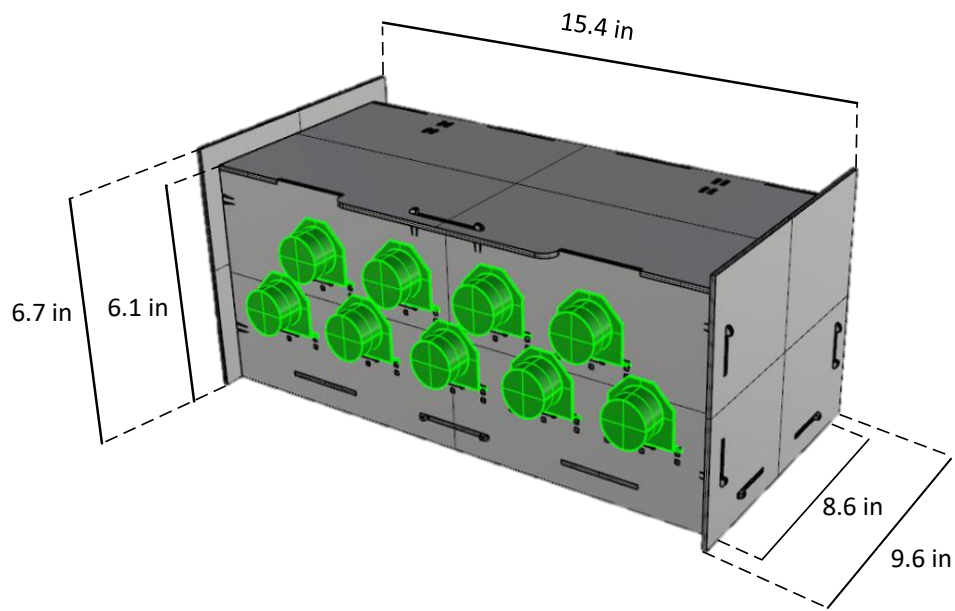


Figure 3. Acrylic case to assemble.

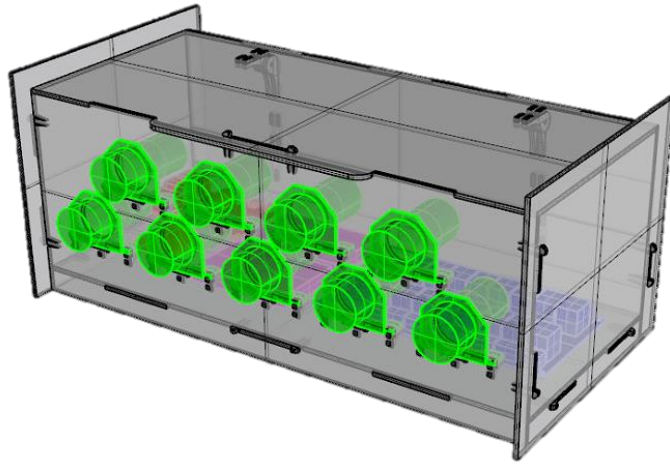


Figure 4. Acrylic case, front view.

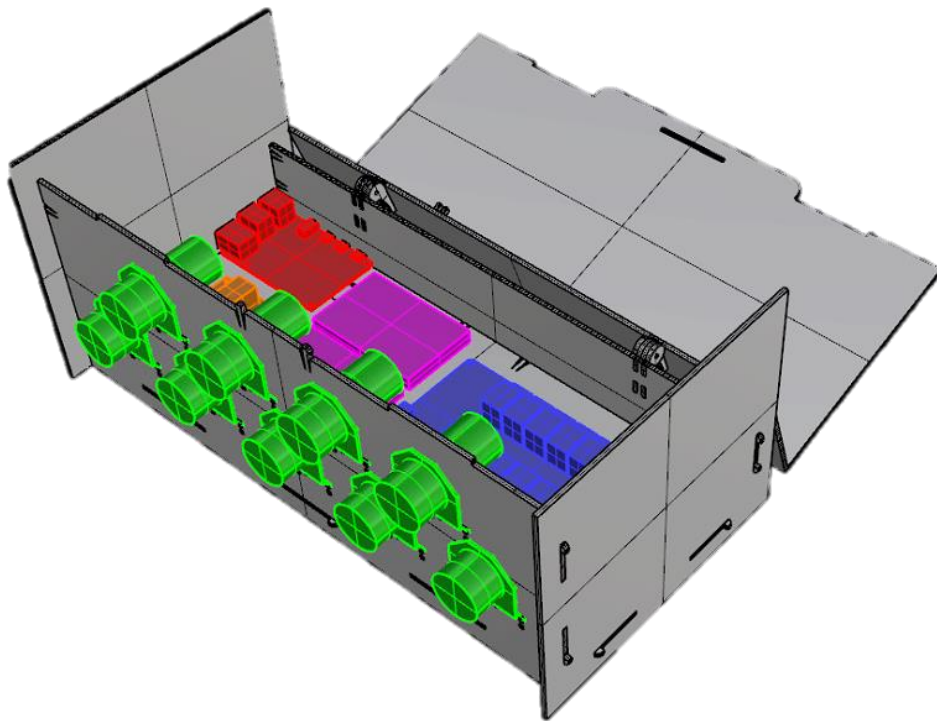



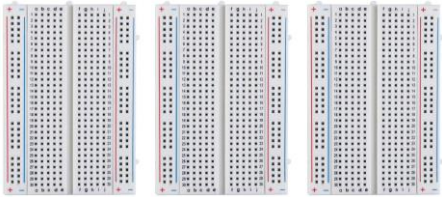





Figure 5. Acrylic case, interior view.


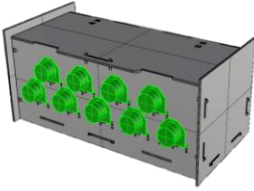
MIK-I parts

Table 1. MIK-I parts

Quantity	Material	Image	Price
1	Raspberry Pi Model 4B		USD \$144.99
1	120 pcs Breadboard Jumper Wires 20 cm Assorted Cable		USD \$6.99
1	4 Channel DC 5V Relay Module for Arduino Raspberry Pi		USD \$7.99
1	3 Pcs 400 Tie Point Experiment Mini Bread		USD \$7.99

1	T-Type GPIO Extension Board +40 pin Ribbon Flat Cable - Copper Core, Rainbow Looking - Applied to Breadboard Test - Extending Kit for Raspberry Pi		<u>USD</u> <u>\$8.39</u>
4	Low Flow Peristaltic Pump 12 V		<u>USD</u> <u>\$9.98</u>
1	Magnetic Stirrer with 4 pcs, Stir Plate 3000RPM Magnetic Mixer 3000 mL Lab Stirrers		<u>USD</u> <u>\$33.77</u>

1	4 Groups !M Alligators Clips Electrical, Insulated Test Leads with Alligators Clips, Stamping Double-Ended Jumper Wires for Electrical Testing, Circuit Connection, Experiment (Red & Black)		<u>USD</u> <u>\$5.98</u>
1	Universal AC/DC Adapter Multi-Voltage Regulated Switching Power supply with 8 Selectable Adapter Plugs, for 3V to 12V		<u>USD</u> <u>\$15.98</u>
1	Water Pumps, DC 3-4.5V 100L/H Mini Micro Submersible Motor Pump Water Pumps Low Noise for Fish Tank Fountain Aquarium(JT-DC3W Horizontal)		<u>USD</u> <u>\$6.10</u>
1	Hommp 4-Pack Large Stainless Steel Mixing Bowls/Metal Prep Bowls, 10-Inch		<u>USD</u> <u>\$19.55</u>

3	Silicone tubing		USD \$11.99
1	acrylic box		USD \$60