



## **Product Description:**

A mighty STEM robotics kit for kids and beginners to give them the perfect start into the world of electronics, programming, physical computing, STEM and robotics.

- Gives kids the ultimate STEM learning experience with lots of exciting DIY projects
- Contains hundreds of electronic and mechanical components
- Includes a maker guide with instructions for 80+ DIY projects for experimenting with science, play with circuits, and run robots among other things.

## **Component List – STEM MOZ Starter Kit**

<b>Brain</b>	<ul style="list-style-type: none"><li>• 1 x Arduino Uno – Electronics prototyping platform with USB cable</li></ul>
<b>Electronics Components</b>	<ul style="list-style-type: none"><li>• 10 x Switch (Pushbutton)</li><li>• 20 x LEDs – Red, Blue, Green &amp; Yellow – 5 each</li><li>• 2 x Capacitor (220 or 100 uF)</li><li>• Resistor Kit – 15 x 15 x 220 <math>\Omega</math>, Resistor, 10 x 1 k<math>\Omega</math> Resistor, 10 x 4.7 k<math>\Omega</math>, Resistor, 15 x 10 k<math>\Omega</math> Resistor &amp; 10 x 1 M<math>\Omega</math> Resistor • 6 x Alligator Clips</li><li>• Jumper Wires - 20 x 20 cm Jumper Wire (Male-Male), 20 x 20 cm Jumper Wire (Male-Female), 20 x 20 cm Jumper Wire (Female-Female)</li><li>• 1 x Pair of sensing cables</li></ul>
<b>Sensors</b>	<ul style="list-style-type: none"><li>• 1 x Dual Axis Joystick Module</li><li>• 1 x Distance Sensor (Ultrasonic Sensor)</li><li>• 2 x IR Proximity Sensors</li><li>• 8 x Light Sensor</li><li>• 10 x Switch (Pushbutton)</li></ul>
<b>Actuators or Motion Modules</b>	<ul style="list-style-type: none"><li>• 2 x Micro Servo Motor (Includes 3 servo horns and self threading screws)</li><li>• 2 x Dual Shaft Motor (with 2 Brackets)</li></ul>

<p><b>Mechanical</b></p>	<ul style="list-style-type: none"> <li>• 1 x Distance Sensor Holder</li> <li>• 2 x Wheel</li> <li>• 1 x Base Plate [Chassis]</li> <li>• 10 x Other laser cut parts</li> <li>• Nuts and Bolts - 6 x M2 bolts of 12 mm Length   25 x M3 bolts of 8 mm Length   10 x M3 bolts of 12 mm Length   6 x M3 bolts of 25 mm Length   4 x M4 bolts of 16mm Length   6 x M2 Nut   25 x M3 Nuts   4 x M4 Lock Nuts</li> <li>• Spacers [Standoff] - 2 x 15mm M3 (Male to Female)   5 x 20mm M3 (Female to Female)   4 x 30mm M3 (Male to Female) • Cable Ties</li> <li>• 1 x Castor Wheel</li> <li>• 1 x Screwdriver</li> </ul>
<p><b>Book</b></p>	<ul style="list-style-type: none"> <li>• Young Makers' Guide (15 chapters, ~100 pages)</li> </ul>