

## Preliminary requirement in Hardware for competition groups:

Do note that this is only preliminary cost. As each team progresses, it may require additional devices. The more advanced the progress each makes, the more likely it will require more hardware.

You will be responsible for purchasing the hardware and software.

	Soccer, Maze, Onstage	Line / Mindstorms	Line / Ranger – B & I	Webots/Maze – Sim or ZeroRobotics
<b>Core Set</b>	This is considered to be more advanced group.	Mindstorms EV3 Core set	<a href="#">MakeBlock mBot Ranger</a>	None
<b>Other devices in additional to what comes in the core set</b>	There is no pre-defined set/kit. This will vary based on each team’s skill set and creative ideas.	2x Color sensors	1x <a href="#">MakeBlock Me RJ25 Adapter</a>	None
		1x Ultrasonic	2x <a href="#">Makeblock Me Color Sensor</a>	
		1x Gyro sensor		
			Offers much higher expandability than Mindstorms, but requires more experience in programming and patience in building.	
<b>Software</b>	Varies (most likely Arduino-C)	<a href="#">RobotC</a>	<a href="#">Makeblock IDE</a> & <a href="#">Arduino-C</a>	online
<b>Suggested Vendor</b>		<a href="#">Shop.lego.com</a> or you can buy it from LEGO retail.	<a href="#">RobotShop</a> <a href="#">DigiKey</a> or MicroCenter retail.	None
<b>Approx. cost for software</b>	\$0	\$50 to \$90	\$0	\$0
<b>Approx. cost for hardware</b>	\$400+	\$450+	\$180+	None