

# For Robotics with Electronics Track

Book: Beginning Arduino book by McRoberts

www.robotshop.com, or www.adafruit.com, www.amazon

(All cost is just an approximation)

## Minium to have for Beginner:

Electronic device & accessories

\$	85.00	<a href="#">Arduino (Uno R3) Starter Kit</a>
\$	5.00	<a href="#">830 Tie Point Interlocking Solderless Breadboard</a>
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\$	90.00	

## Add-on later depending on individual's progress:

(as always, more accessories may be needed for various projects that you choose to work on at home)

\$	5.00	<a href="#">9V Battery Wiring Harness</a>
\$	27.00	<a href="#">Arduino Motor Shield</a>

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\$	32.00	

## Not a must to have at the beginning, but will be good to have in a long run:

Tools for Electronic work (I bought most of these from either Amazon, Robotshop or homedepot)

Only for your reference. There are many alternatives that you may choose from or already have had in your garage.

\$	6.00	<a href="#">wire stripper</a>
\$	30.00	<a href="#">Digital LCD Multimeter</a>
\$	9.00	<a href="#">Six Piece Precision Screwdriver Set</a>
\$	11.00	<a href="#">Stanley SortMaster Organize, I got 014026R and 014725 (up to you )</a>
\$	12.00	<a href="#">Antistatic Bags, Resealable</a>
\$	14.00	<a href="#">Precision Pliers Set such as this one including needle nose piler &amp; wire cutters,etc.</a>

(I personally like Kobalt 6-Piece Mini Pliers Set)

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\$	82.00	

**Extras electronic accessories when you start to do more self-conducted projects at home.**

\$	5.00	<a href="#">170 Tie Point Mini Solderless Breadboard</a>	
\$	6.00	<a href="#">830 Tie Point Interlocking Solderless Breadboard</a>	
\$	5.00	<a href="#">3or more photocells</a>	
\$	5.00	<a href="#">3or more rgb leds</a>	
\$	3.00	<a href="#">10-pack M-M 6" Red</a>	
\$	3.00	<a href="#">10-pack M-M 6" Black</a>	
\$	3.00	<a href="#">10-pack F-F 6" Red</a>	
\$	3.00	<a href="#">10-pack F-F 6" black</a>	
\$	3.00	<a href="#">10-pack F-M 6" any color</a>	
\$	10.00	400-Piece-Value-Resistor	most commonly used resistors: 43K, 82K,200, 10K,
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\$	36.00		

**ONLY used in more advanced level.**

\$	109.00	Logic Analyzer - Saleae Logic 4	<a href="https://www.saleae.com/">https://www.saleae.com/</a>
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