Build your own Little Robot (SCRU-FE)

Printing:

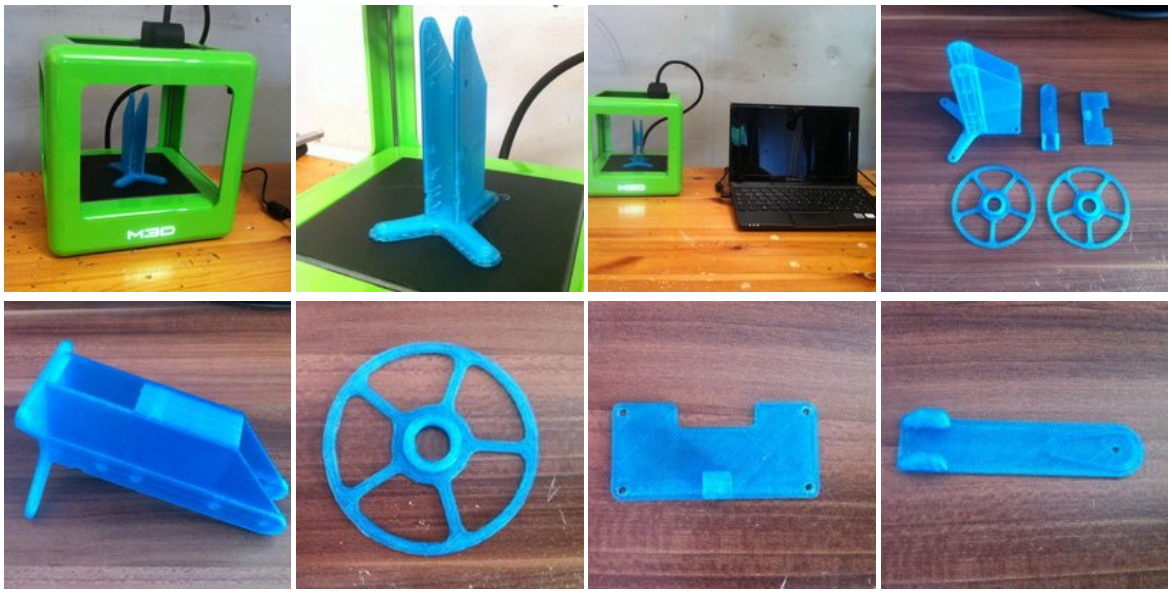
1x Body	(x hours)	[Transparent Blue PLA]
1x USMount	(x hours)	[Transparent Blue PLA]
2x Wheel Half	(x hours)	[Transparent Blue PLA]
1x Servo Extender	(x hours)	[Transparent Blue PLA]

Total printing time: xxx hours

Total filament: xxx inches

Source: SCRU-FE: Simple C++ Robot by rtheiss

Description: All parts have been printed in Transparent Blue PLA of 3DInk with the settings "High/High" on 'ScotchBlue' painters tape. (Room temperature 20-25 °C)



Assembling:

All parts for the assembling have been ordered by eBay, Aliexpress and Local Hardware Store.

Ebay:

2x Motor with Wheel - 5,69 Euro

1x Arduino Uno - 6,69 Euro

2x Battery Holder AAA - 4,00 Euro

1x 9g Servo Motor - 2,39 Euro

1x 15A power switch - 1,63 Euro

1x HC-SR04 ultrasonic sensor - 1,19 Euro

1x 200mm female/female 4pin cable - 3,58 Euro

1x F623 bearings - 1,00 Euro

Aliexpress:

1x Motor Shield (L298P) - 9,74 Euro

Hardware Store:

1x A bunch of M3 screws, nuts and washers - 2 Euro

In total this made a price of 38 Euros.

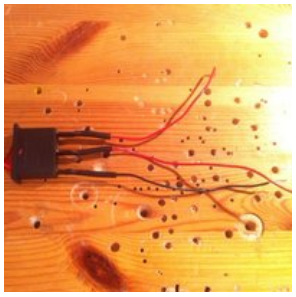
I decided to implement a nice red switch for turning on and off this little robot.

Therefore I cut out a little piece behind the servo and placed the switch in there.

The place is just perfect for this switch.

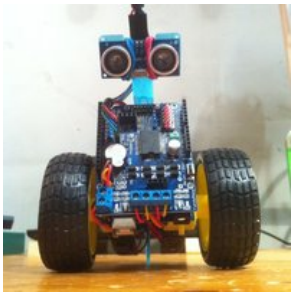
I connected the two battery holder in series with AA batteries.

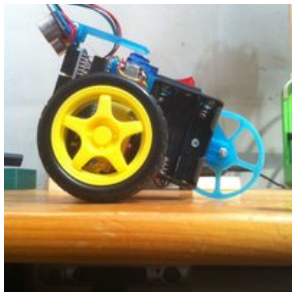
This gives me an output current of 2200mA and voltage of 9V.


Final:

You can see the little robot finally assembled.





Prev Next

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