AVR Workshop 1 – Supplement: AVR Learning Platform Foamcore Base and Box.

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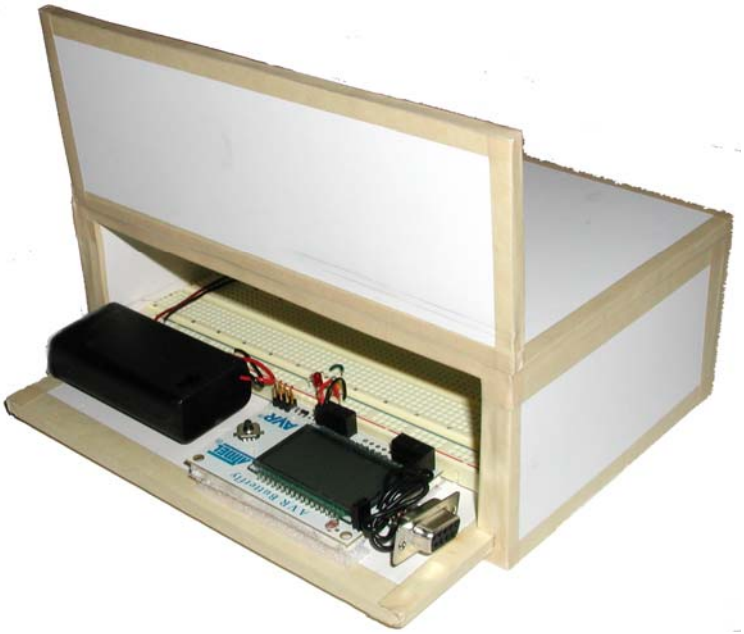
6/6/08 Joe Pardue © 2008

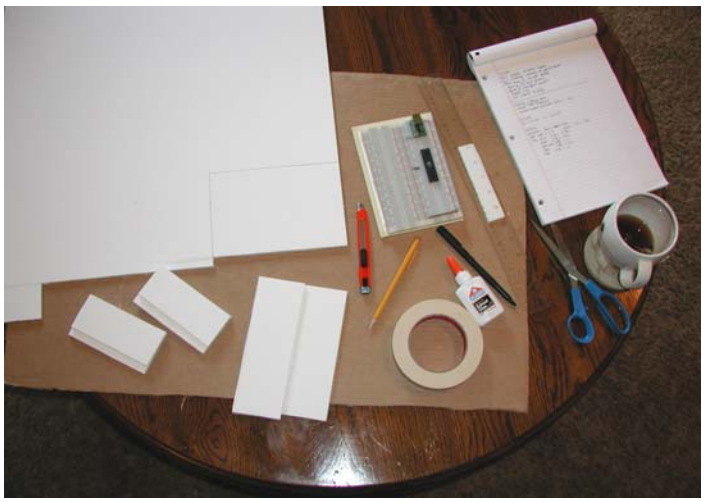


If you liked kindergarten, you're going to love this project. Not only do you get to use foamcore board, tape, and glue. You also get to use a razor; I bet they didn't let you use one of those when back then.

We will build a base for our AVR Learning Platform and a box to store it in. You are going to be surprised at how sturdy these bases and boxes are and I expect the foam core engineering skills you learn here will serve you later more complex projects.

You'll find these foam core boxes really handy once you get some complex wiring setup and you don't want to inadvertently screw something up when you have to move your development system somewhere.

You could use corrugated boxboard, but the foam core board is a bit sturdier (and prettier). You'll need a razor sharp knife (a box cutter with break off tips is a good choice), white glue, masking tape and a cutting surface that you don't mind accidentally cutting. For mounting the Butterfly and battery box you will need foam tape and Velcro (also patience and luck). A nice first aid kit might also come in handy.



Cut out foamcore panels:
Butterfly Breadboard base 7" x 4"
Box Base – 7 1/16" x 4 13/16"
Back – 7 3/8" x 2 1/2"
Outer sides – 4 13/16" x 2 1/2"
Inner sides – 4 13/16" x 2"
Top – 7 3/8" x 5"
Front – 7 7/16" x 2 11/16"

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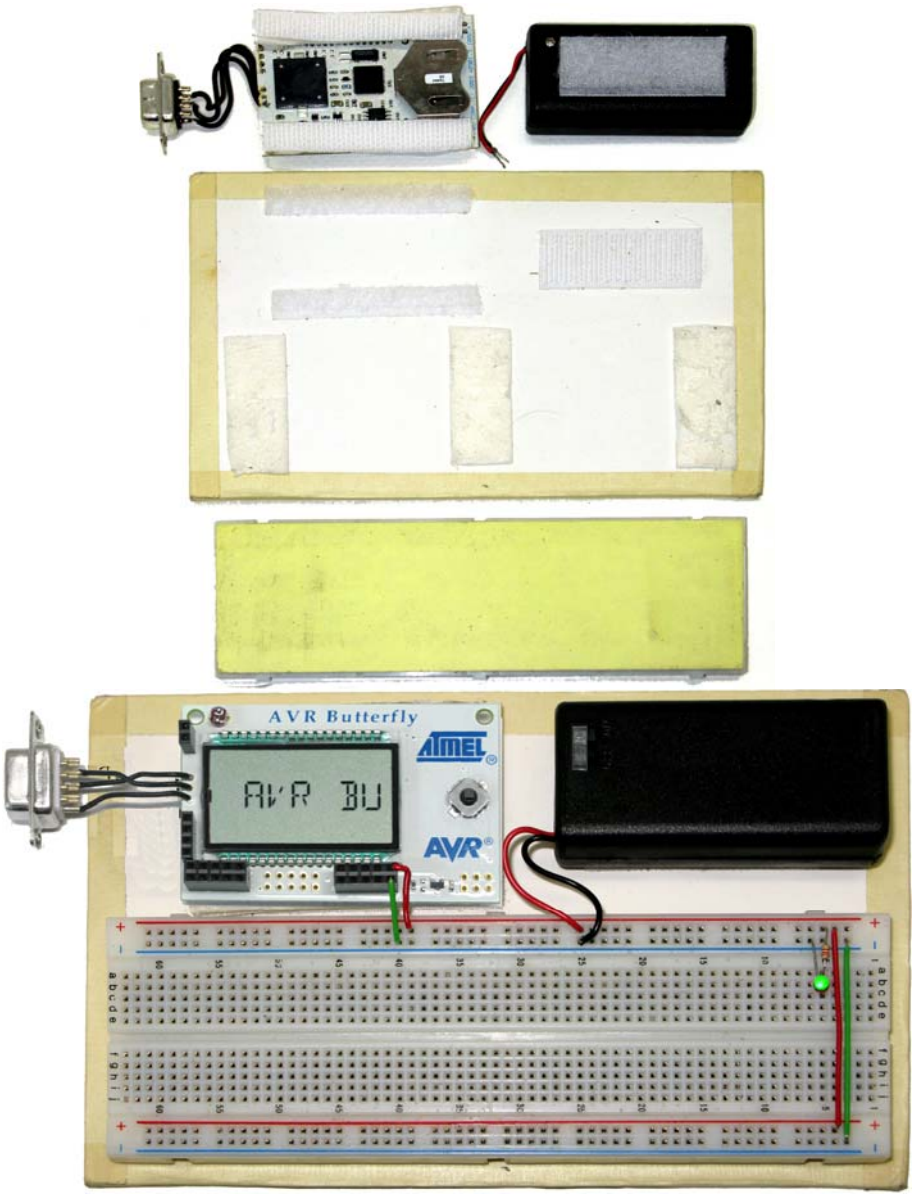
AVR Learning Platform Base

Cover the edges for the development board base with masking tape Put strips of foam tape and then Velcro on the back of the Butterfly. Then put the mating Velcro strips on the baseboard. Use only Velcro for the Battery box and only foam tape for the breadboard.



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AVR Learning Platform Storage Box

Notice that the sides have a tall and a short panel glued together. This will provide a slot for the development board to slide into. Be careful when making this slot so that it is big enough and doesn't have a lot of glue and crap to inhibit sliding the baseboard in.

Glue the sides together as shown

Cover the box edges with masking tape being careful with the slot that will hold the baseboard. Cover the lid edges with masking tape and then tape the lid to the box using tape on both sides to form a tape hinge.

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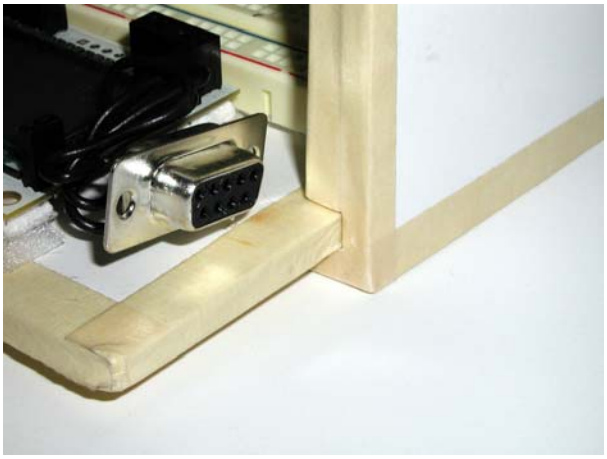
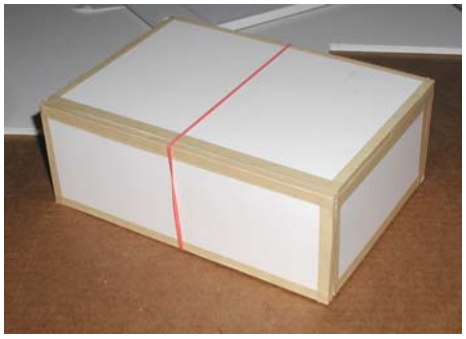


Slide the baseboard into the box. Close the lid and secure it with a rubber band.



Now admit it: that was fun, wasn't it?