Pre-Project 2

The Basic Beakman's Motor

Read over the write ups from past semesters on the Beakman's Motor. Also, look over all of the materials provided for the Electronic Instrumentation course, including the PowerPoint presentation on this project. You will find them at http://hibp.ecse.rpi.edu/~connor/education/EILinks.html#Proj1

In this studio session, you are to build the basic motor using a DC power supply for your 1.5 Volt source. You will also have a (probably dead) battery to see how the configuration goes together. Once you build the motor, you need to test it. It does not matter how fast it goes, only that it actually turns. Once you get it going, have a TA verify that you have completed this task by signing below.

In addition to building a working motor, you must also estimate the inductance and resistance of your coil. You should calculate both terms and also measure them. The resistance can be measured with the multimeter and the inductance with the bridge. Make sure that you note the values for these parameters so that you will have them available when you begin the project.

Did	Yo	u
Clea	ın I	Jp?

Name:	
Name:	
Name:	
Name:	
Speed:	

Coil Inductance	
Measured	
Calculated (provide formula)	
Coil Resistance	
Measured	
Calculated (provide formula)	