

Survey

When I try to build something from scratch (birdhouse, etc):

- I am very diligent and design it and build it to last.
- I sort of feel my way through it and throw it together – it usually works.
- I throw it together, but it's usually a disaster.
- I don't know how.
- “May require assembly” makes me want to cry.

My experience with electronics and electricity:

- Newbie – I want to learn, but I need someone to show me.
- Beginner – I am starting to put together simple kits, cables, etc.
- Intermediate – I can build and troubleshoot electronics pretty easily. I can read schematics. I don't do much design, though.
- Advanced – I can design my own circuits without help, but want to broaden my knowledge.

I feel comfortable with:

- Working on my car
- Building a table
- Building a stirling external combustion engine
- Drilling and cutting sheet metal
- Drilling and cutting wood
- Putting together IKEA furniture

- Soldering
- Using a Multimeter
- Using an Oscilloscope
- Hacking electronics (opening them up and modifying them)
- Blow-drying my hair in the bath tub
- Designing my own circuits

- Max/MSP
- Maya or other 3d animation type software
- Video and Photo
- CAD Matlab or 2d / 3d Design software.

- Basic physics
- Basic math (algebra)
- More advanced math (trig, statistics, maybe calculus)

- I know how electricity works, I just want to do something cool!!!

I already have a project I am working on that I would like to develop in this course:

I am most interested in:

- Learning to solder, put things together and make some creative gizmos.
- Learning about sensors and “interactive” electronics (automata, robotics, etc)
- Microcontrollers like PIC Basic Stamp etc... Programming.
- Building mechanical or sculptural objects that do something.
- Hacking apart anything and everything to tweak with its guts.

- Sound
- Visual
- Video

Other: _____

Possible Project:

- I have something in mind, but its vague and I don't know how to start.
- I know exactly what I want to do, but I need help.
- I don't know what's possible yet – I may need some suggestions.
- I don't want to make anything. I just want theory.
- I already have a project, I just need tutoring / consultation.