

A Summer Robotics Camp

Introducing the Arduino Micro Controller

Presented by Robofest
On the campus of Lawrence Technological University
Monday July 9th, 2012 and Tuesday July 10th, 2012
from 9:00am to 4:00pm

You've heard people say study harder and that its not easy being green. But can you study greener? Is it easier being green if you have an Arduino? Come to a two day camp, build yourself some tools and decide for yourself.

Look around at your study space; what's there? A TV, cell phone charger, desktop computer, laptop charger, UPS, Speakers for an iPod, desk lamp? How much electrical power does all this use? Can we minimize the kilowatt hours used while studying?

On the first day of camp we will solder up some pieces that will allow the Arduino to measure temperature, watts and how close a warm blooded animal is while reporting those results to your computer. Then add another piece so the Arduino can flip a switch.

The second day will be a lot of programming so the hardware we made does something intelligent and useful.

Your Arduino will become sort of an autonomous robot. But one you can overrule when your favorite TV show comes on during study time.

After camp you will take your tools home and report back to the camp Website on your experiments in studying green. Later you can try out your tools on a refrigerator or maybe a window fan.

Some things we will learn about:
electrical safety, soldering,
amps, volts, watts, RMS,
temperature sensors, proximity sensors,
small radio networks like those for R/C cars,
the C like Arduino programming language.

Cost: \$200. Approximately half of the tuition is for the Arduino and the tools the student makes in camp, all of which will be taken home.

Sponsors: TBA Sponsorships are available. Support from sponsors will be used to reduce the camp tuition.

Email: jmiller@ltu.edu
for registration
and info

March 23, 2012