

Download Arduino Laboratory Manual

As you may know, Arduino is designed for prototyping – it's a platform for designing cool electronics ideas that you have. Now the Arduino in and of itself is pretty amazing – you can do a lot of stuff with an Arduino alone. But when you want to start adding all types of cool technologies like bluetooth, wifi, RF, motor-drivers, etc. it can be pretty tricky; especially if you are new to ...The temperature control lab is an application of feedback control with an Arduino, an LED, two heaters, and two temperature sensors. The heater power output is adjusted to maintain a desired temperature setpoint. The Arduino Compiler for LabVIEW allows users to deploy and run LabVIEW code embedded in Arduino targets without the need for a connected computer.

1. Laboratory Introduction and BJT(s) (2 hours) At the end of week 1 students will be able to. Obtain BJT operating characteristics and IV curves. (1, 6) Identify BJT operating regions. (1, 6) Implementing logic gates using BJTs (1, 2, 5, 6) Analyze problems with BJT logic gates. 1