

ESE3005: Embedded Systems Architecture II

Welcome!

Course Expectations

- You have Ubuntu 16.04LTS/18.04LTS/20.04LTS running on a desktop or laptop machine (“host machine”)
- You have a Beaglebone Black or variant (you need access to one at least 3 days per week)
 - Recommended that you get your own, depending on your group situation (if you meet just once per week, then you should get your own!)
- You are willing to purchase some hardware for this class:
 - A separate touch screen, a bluetooth module, miscellaneous electronic hardware components
- Familiarity with Git, and have a personal account with github.com

Textbooks for this Class

- ₁ Exploring Beaglebone, 2nd Edition*
 - Derek Molloy (soft cover recommended)
- ₂ Embedded Linux Systems with the Yocto Project*
 - Rudolf J. Streif
- ₃ Yocto Mega Manual:
<https://www.yoctoproject.org/docs/3.1.2/mega-manual/mega-manual.html>

Suppliers for Electronics

- Elmwood electronics
- Digikey.ca

Good to have

- 3x micro-SD card (get a good brand, 8-64Gb, Class 10 or greater)
 - 1 for the latest Debian image
 - 1 for your own Yocto builds
 - 1 as a mass storage “external flash” for Beaglebone
- Micro-SD card adapter