Lecture 03: Using Git

BME464L (Fall 2013, Palmeri)

- Business Items
 - Review of LabArchives
 - Widgets
 - Signing pages
 - Review on Monday evenings
 - Review of Semester Schedule
 - Expectations in Presentations
 - Copy slides to ELN
- Using Git
 - Lots of good online resources to learn git:
 - http://git-scm.com/book
 - http://help.github.com
 - A Visual Git Reference: http://marklodato.github.io/visual-git-guide/index-en.html
 - git the simple guide: http://rogerdudler.github.io/git-guide/
 - Atlassian
 - Git Basics: https://www.atlassian.com/git/tutorial/git-basics
 - Git Workflows: https://www.atlassian.com/git/workflows
 - Duke-Medical-Intrumentation groups setup on GitHub, all with distributed management
 - Setting up username & email address
 - Login credentials (push access): HTTPS vs. SSH Public Keys
 - Sharing repository: clone / push / pull
 - Workflow: local -- add --> stage -- commit --> commited -- push -> origin
 - Demo: clone class sandbox repo
 - Local branches / merges
 - Create local branch
 - Make change to team page
 - Switch back to master branch and correct a typo, commit and push (need to commit first!)
 - Make more changes to branch
 - Merge branch changes to master
 - Delete branch
 - Push all changes
 - Post-commit hooks
 - Issues
 - · Setting up wiki and GitHub Pages

- Due next lecture: Software License
 - Choose a software license for your GitHub repository. Push an appropriate LICENSE file to your repository, and follow the necessary guidelines in putting header comments in your code moving forward.
 - Upload a one-page writeup (submitted as a group) to your ELN justifying the choice of your software license in the context of other common licenses.
 - A good starting point: http://choosealicense.com/
- Next Lecture: Introduction to the Microcontroller (Arduino)