



RoboJackets
BATTLEBOTS - OUTREACH - IGVC - ROBOCUP - IARRC

RoboCup Meeting

Electrical Subteam

09/23/2014



Overview

- Tower building
- What is git? Getting our files using git
- EEVblog & Soldering Tools
- Debugging a robot
- Redmine account creation
- Arduino reflow oven project



Now that subteams are selected...

- Meet the person to your left and right
- If you already know them, meet someone else
- Get their phone number/e-mail
- Make sure they are here next week



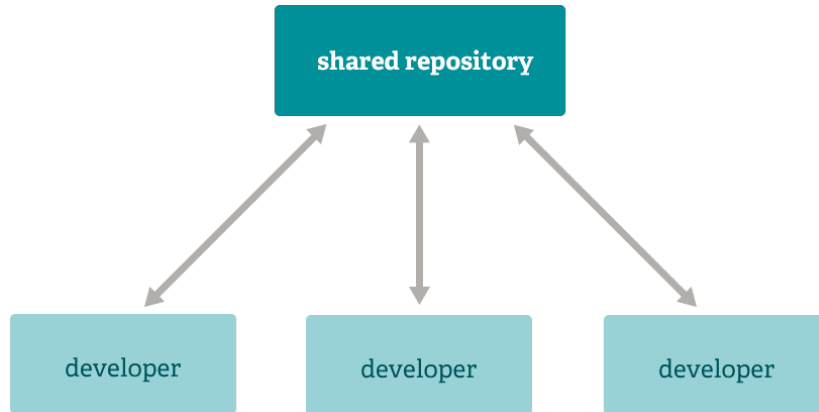
Poker Tower

- Divide into groups of 3 people
- Each team gets a deck of cards & scissors
 - Those are the only items you can use
- Time limit of 10 minutes
- Team with the highest tower wins
 - Height measured as distance from base to peak



What is git?

- git is a free *version control system*
- GitHub is a website that offers free git hosting services if your files are open source





To use git on Windows

- Download & install git
 - details <https://github.com/robjackets/robocup-pcb>
- There is a GUI, but using the terminal interface is much more powerful



git

- Terminal command to get all of our files

```
git clone https://github.com/robjackets/robocup-pcb
```

- To overwrite the files on your computer & restart

```
cd .\robocup-pcb  
git pull
```



Electrical Training

- This week is all hands-on soldering
- Will meet at a lab on campus
- Will receive an e-mail with further details if not already
- WEDNESDAY & SATURDAY



EEVblog

- EEVblog is the YouTube channel of David Jones
- Excellent source of reliable information
- Soldering Videos
 - <http://www.youtube.com/playlist?list=PL2862BF3631A5C1AA>
- Soldering Tools Video
 - <http://www.youtube.com/watch?v=J5Sb21gbpEQ&index=1&list=PL2862BF3631A5C1AA>



Arduino Reflow Oven Project

- <https://github.com/0xPIT/reflowOvenController>





For next week

- Make sure you make it to a soldering training session this week!
- Download & install git
- Download & install the free version of EAGLE
(6.5)
- Bring laptop for next week