

# Recitation #12

**18-649 Embedded System Engineering**

**TA: Will Sergeant**

**Friday 2<sup>nd</sup>-Dec-2011**



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**Carnegie  
Mellon**

# Announcements and Administrative Stuff

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- ◆ **Final presentation template posted on Recitations page**
  - Due: Sunday December 4<sup>th</sup> at 5 PM
  
- ◆ **Project 13 due **Tuesday 13<sup>th</sup> Dec****
  - During finals week
  
- ◆ **Project demos **Wednesday 14<sup>th</sup> Dec****
  - **Reading day**
  - We will announce times/place
  - If you want to demo early that is fine – contact your TA

# Weekly Progress Update Page

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- ◆ **Fill these in status reports every week by the deadline**
- ◆ <http://www.ece.cmu.edu/~ece649/progress/>
- ◆ **Your participation grade *heavily* depends on these reports**
  - Participation is 5% of total grade
- ◆ **Weekly progress updates due every week **Friday 9:00 PM****
- ◆ **Everyone submits one report each week**
  - Even if they're late, we still want them (Standard late penalties apply)
- ◆ **All students should be able to access the progress page**

# Course Project Exit Criteria

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- ◆ **Run Time Monitor Must Be Implemented**
  - Pass all unit tests with zero failed assertions
  - Pass all integration tests with zero failed assertions
- ◆ **Pass all acceptance tests**
  - Using -b 200 and -fs 5.0
  - Zero failed assertions (after startup)
- ◆ **Must have a working elevator to complete the course**
  - “Working” means passes the set of tests listed on the final project web page
  - Non-working results in Incomplete if you don’t get it working by grade deadline
- ◆ **+1% final grade for best elevator (one group only)**
  - Rank groups by average performance and satisfaction across acceptance tests
- ◆ **+2% final grade for complete and consistent design portfolio**
  - All groups are eligible for this

# Performance Competition

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- ◆ **Two performance metrics**
  - Delivery Performance – efficiency of elevator
  - Satisfaction Performance – passenger satisfaction
- ◆ **Existing and new acceptance tests will be used**
- ◆ **A rank will be awarded for each workload for each metric (1 - 10)**
- ◆ **Over all group score will be sum of all the ranks for each workload**
- ◆ **Group with the lowest sum will be the winner**
- ◆ **Ties will be broken based on scores received for each metric**
- ◆ **Winner will get 1% extra on the final course grade**

# Suggestions for Project 13

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## ◆ Impose a “code freeze” as soon as possible

- Stop changing code as soon as your design reliably passes all tests
- No new features, no new fixes, no new comments or cleaning
- If it works, stop fixing it, and archive a COMPLETE COPY somewhere safe
  - “Safe” does not mean in the same directory structure as your 649 working copies
  - “Safe” means write-protected
  - Version control is very effective, but nothing is perfect!
  - Keep all your different “this one works” copies until you get your final course grade
- If you edit a single line of code (even a comment), re-run ALL tests

## ◆ When submitting your code

- Do a clean export from version control and upload it
- Extract a new clean copy of the simulator framework in a new directory
- Download what you submitted and insert it into the new simulator
- Recompile (make clean) and re-run all your tests

## ◆ Focus on traceability as soon as you can (its worth A LOT of points)

- End to End traceability is required for this project
- Tweak performance after you have a clean, traceable hand-in so you don’t get caught short on time

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**Questions?**