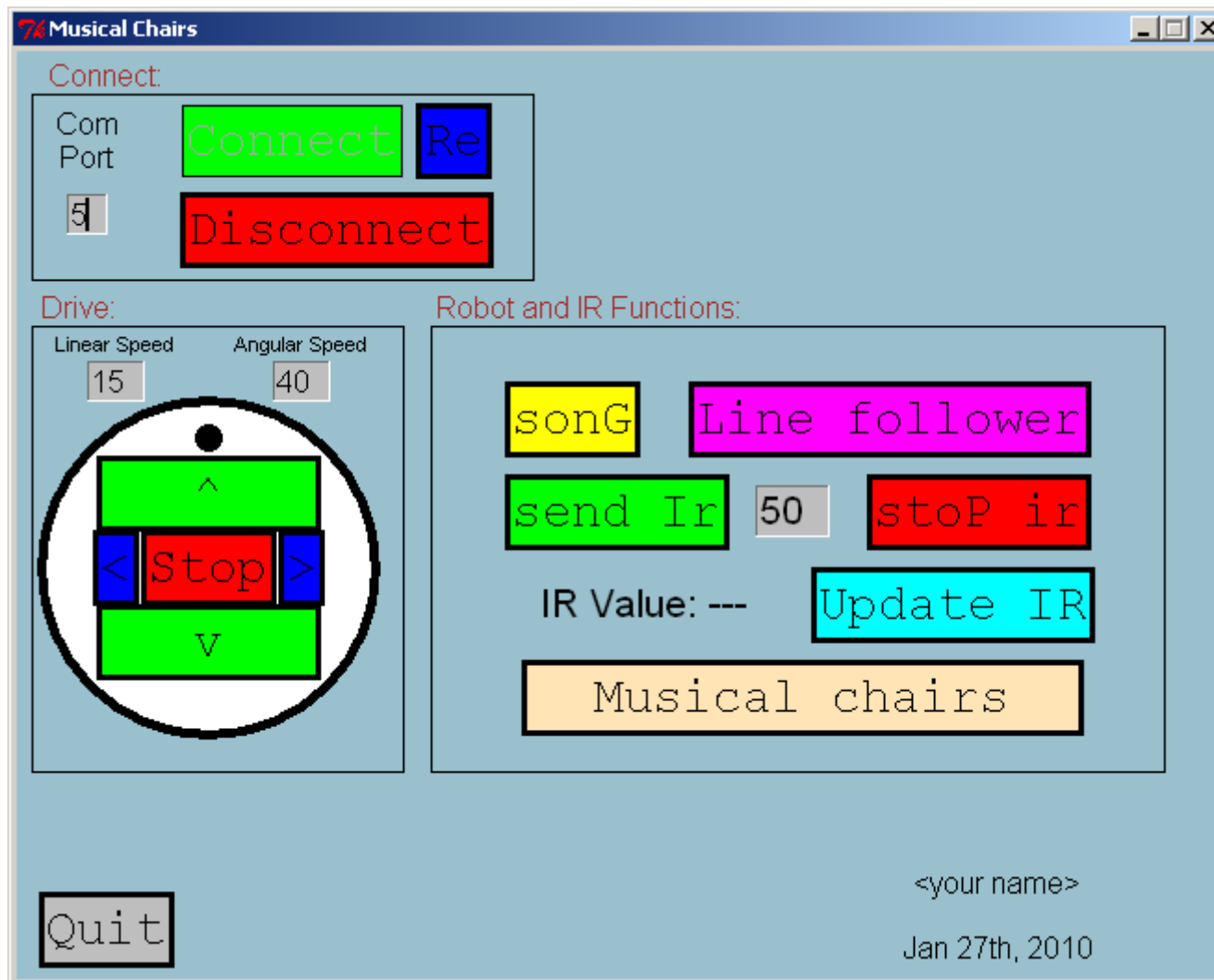# PROJECT KICKOFF

CSSE 120—Rose Hulman Institute of Technology

Project idea

- We will be make a GUI to control the robot
- One of the buttons will be to Play Musical Chairs
  - While receiving the signal 50 to robot go around the line
  - While receiving the IR signal 100 the robot must stop
  - One the robot receives the IR signal 200 the robot should be the first to reach the "chair" the chair is the teacher robot in the middle of the circle
  - There will be a little musical chairs tournament

GUI Layout

Project process

- We will begin the project today

- Due: presentations will be done in Session 20

- Milestones each day along the way

- Today in class: Planning, and deciding what you will have done for each class day

- Exam 2 is Thursday, Jan 28, 7:00 PM

Interaction with your project team

- Brainstorm
  - What to do

  - What not to do

Working with your project team

- Use good practices of **pair-programming,** but with two navigators.

- Have one navigator double as a *facilitator* to make sure the team **stays on task.**

- **Rotate** who drives (types the code)

- Give driving **preference** to those with less programming experience, so they can set the pace

- **Encourage the driver**

- **Make sure** the navigators understand the code added so no one gets lost

- **Work by consensus,** not command: don't "take over" the project and do it solo.

Get going

- Meet your teammates
- Exchange contact info
- Agree on when you will meet next (at least one meeting before the weekend)
- Read the assignment (and follow the links). Ask questions on things you do not understand.
- Draw your ideas of what your screen layout will look like
  - Use a whiteboard if you wish
- Think (and write) about object types (dictionaries) that you will need – what will the keys be?
- Figure out and record your milestones. What will you have done before each class day.
- High-level plans before you begin coding
  - Add your notes on all of this to your project and commit to your team repository

Teams

csse120-201020-team31,wangg,alrisham,seligja

csse120-201020-team32,bristokb,bellbw,casimist

csse120-201020-team33,montgomj,armacoce,pedzindm

csse120-201020-team34,schletal,fennigea,masonkd

csse120-201020-team35,patelms,mcgeevsa,powellcl

csse120-201020-team36,breenjw,verkamma,webbjd

csse120-201020-team37,solorzaa,whitemrj,teemanem

csse120-201020-team38,gibsonjr,goodwiba,kovacidw

Open the SVN Repositories tab, right-click, and choose New → Repository Location...

In the "Add SVN Repository" window, type:

http://svn.cs.rose-hulman.edu/repos/csse120-201020-teamXX

Project Location

- ANGEL → Lesson → Projects → MusicalChairs
- Also linked from Session 16 on the Schedule page, so you do not need to go through ANGEL at all.
- Be sure to read the linked articles and demos.