Project Proposal Guidelines

- Preferably, teams of 2-3 students
- Groups larger than 4 will not be allowed
- You can work alone if you want

- Try to team up with people with different skills than yours.
Proposals: What to Submit

• Idea/application:
  – Your sales pitch
  – What is your target audience/user population
  – Demonstrate a need for that application
  – Previous approaches (if any)
  – Related work (in robotics, developmental psychology, AI)
  – Your previous experience (needed to show why you think you can do it when others before you have failed)
  – Idea filter: If a 2-year-old child cannot solve your task then your project idea is probably too complicated.
Proposals: What to Submit

• Your Approach (in details)
  – Equipment to be used (e.g., simulator, robot, other)
  – Algorithms and data structures
  – Dataflow, user interface, etc.
  – What software libraries do you plan to use?
  – Have you used them before (e.g., if you have never done computer vision programming it might be naïve to think that you can learn it in 2 months)
  – Include images/diagrams of mock setups, experimental setup
  – Include a timeline (What will be done? When? By which team member?)
Proposals: What to Submit

• Evaluation Methodology
  – How do you plan to test it?
  – What is defined as success in your case?
  – How many test conditions?
  – How many test subjects (if applicable)?
  – How will you evaluate your results?
  – How will you improve it based on the results?
Proposals: What to Submit

• Submit 10-15 pages

• Due: Thursday, March 10

• You will grade the proposals of your peers
Final Project

• Write up (25+ pages)
• Demo
• Videos
• Experimental Results
• Poster Presentation
• Oral Presentation
• Web page for your project
Final Project

• Writeups Due (printouts and electronic PDF):
  – Thursday, April 21.

• Presentation Style:
  – Mini-Conference (during dead week)

• Start soon!!!