

Project

- Do a **system** project
- Develop/integrate **software or hardware**
- Perform **experiments** on real systems
- Write a **paper**
- **Demo** your project

Project Topics

- **Application**: Develop an interesting application
- **Experimentation**: Evaluate and compare existing techniques
- **New ideas**

Steps

1. Identify your favorite topic
2. Form a team
3. **Proposal presentation**
4. Design and implement your solution
5. Evaluate your solution
6. **Midterm demo**
7. **Final demo**
8. **Write a technical report**

Get Started

- Think about ideas
- Check out devices from Octav
- Talk to me, Octav, and classmates
- Put together a team with three members
- Mailing list: cse467s@cse.wustl.edu

Proposal

- One proposal/team, 1-2 pages
 - Team members
 - Concise description of project
 - Responsibilities of each member
 - Specific equipment needed
- Written proposal due: **2/ 16, 11:59pm**
 - Email to Octav and CC me
 - Subject: [CSE 467S] Proposal: Project Name

Proposal Presentation

- **2/11**, in class
 - Email me the slides by 3pm.
- **~9 min/team**
 - Leave 3 min for discussion.

Ideas for Projects

- GUI and backend of patient monitoring system.
- Network status monitoring tool.
- Stretching mobile ad hoc network around restaurants.
- Notify me when my washer/dryer finishes working.
- IPSN Extreme Sensing Competition.

More

- Research opportunities in my group.
- Teaming.

Midterm Demo

- 4/1 (next Wed), in class.
- Start on time (4pm) sharp.
- 10 min/team (including 3 min for discussion).
- Must show something **real!**
- Test and set up your demo in advance.
- Email me a brief summary of your demo and progress.
- Clearly state the contribution of **each** team member.

802.15.4 Radio Channels

- If you're seeing weird network behavior, set your CC2420 channel to channel 26:
 - ❑ Command-line: `CC2420_CHANNEL=xx make . . .`
 - ❑ Makefile: `PFLAGS = -DCC2420_DEF_CHANNEL=xx`

Final Demo

- 3-5:30
- **15 min per team**
- Set up and test your demo in advance
- All expected to attend the whole session
- It'll be fun! ☺

Project Report

- Submit report and related materials by **11:59pm April 29th**.
- Email me or leave a CD in my mailbox or office.
- Report
 - ❑ Organization: See conference papers in the reading list.
 - ❑ 6 pages, double column, 10 pts fonts.
 - ❑ Use templates on the class web page.
- Other materials
 - ❑ Slides of your final presentation
 - ❑ Source code
 - ❑ Documents: README, INSTALL, HOW-to-RUN
 - ❑ Video (if any)

Peer Review

- For fairness in project evaluation.
- Email me individually by **11:59pm, 5/4**
 - Estimated percentage of contributions of each team member.
 - Brief justification.
- Return loaned equipment to Octav by **5/4**.

Now let the fun begin! 😊

- Set up your demo before your turn.
- Grab your snack and soda and sit back.
- Octav starts the timer now.