Computer Science 432 — 2022 OSCO Presentation Topic Agreement

Proposal due Wednesday, April 6, in class.

Presentations at OSCON, Friday, May 6-14. See Syllabus.

Each of us will give a 7-10 minute talk on an O/S topic of our choice at the O/S Conference, scheduled for the last 4 meetings of the semester. My hope is that you will be able to find a topic that (1) personally interests you and (2) demonstrates some Notable Progress in Learning. Examples might include:

- * Linux Containers. A lightweight file-system isolation and virtualization mechanism.
- * Android's Dalvik Virtual Machine. An open-source, mobile alternative to the Java Virtual Machine.
- * Chrome OS Flex. An operating system for "refreshing" older devices.
- * Zephyr OS. A small-footprint O/S for resource-constrained devices.
- * Address Space Randomization. O/S support for random layouts of memory to fight memory exploits.
- * File System Encryption. What are approaches to encrypting file systems?
- * Hacking the Roomba. O/S support and interfacing on iRobot devices.
- ★ Tesla O/S. What O/S does the Tesla use?
- * Multics O/S. What are the features of the Multics O/S from MIT?
- * Plan-9. What are the features of the Plan 9 Operating System?
- ★ Kindle. What's the Kindle O/S?
- * Booting an Arduino. How does it all start?
- * Apple's Sparse Image. A disk image that grows on demand.

Below, please discuss your plans for this final presentation. Submitting this form is an indication that, if the project is accepted, you will follow through with the proposed work. In other words, think about what you write here, carefully.

1. What is the subject of your O/S-related presentation?

2. What resources are available for you to understand this topic?

3. I am (print): I'm committed to this (sign):