Welcome Aboard!

Jin-Soo Kim (jinsookim@skku.edu)
Computer Systems Laboratory
Sungkyunkwan University
http://csl.skku.edu
Course Information

- **ICE3028: Embedded Systems Design (3 credits)**
- 15:00 – 16:15 (M), 12:00 – 13:15 (Th)
- Room #400102, Semiconductor Bldg.

- Course homepage: [http://csl.skku.edu/ICE3028S12/](http://csl.skku.edu/ICE3028S12/)
About Me

- Jin-Soo Kim (jinsookim@skku.edu)
- Associate Professor @ SW & SSE Dept.
- Computer Systems Laboratory (http://csl.skku.edu)
- Office: Room #400630
- Tel: 031-299-4593
- The best way to contact me is by email.
Textbook

- Computers as Components: Principles of Embedded Computing System Design
  - By Wayne Wolf
  - Second Edition
References (1)

- Embedded System Design: A Unified Hardware/Software Introduction
  - By Frank Vahid and Tony Givargis
References (2)

- Introduction to Embedded Systems: A Cyber-Physical Systems
  - By Edward A. Lee and Sanjit A. Seshia
  - PDF version available at http://LeeSeshia.org
Solid State Drive (SSD)
SSD Internals
www.openssd-project.org
Course Plan

- Lectures
- Team projects
- Exam
Lectures

- Embedded Systems
  - Processors and memory, compilers,
  - Program design and analysis, OS, ...
- Issues surrounding SSDs
  - NAND flash memory, SSDs, FTLs
- Lab sessions
  - Jasmine OpenSSD platform
- Invited talks
Team Projects

- There will be two or more projects using the Jasmine OpenSSD platform.
- You will work in teams of 2 students.
- You can choose your teammate freely.
- Most of Thursday classes will be devoted to Lab sessions led by the TA.
Exam

- No midterm exam

- We will have only the final exam at the end of this semester.
Prerequisites

- ICE3003: Computer Architecture (Must!)
- SSE2030: Introduction to Computer Systems
- SSE3044: Operating Systems

- You should be fluent in C programming!
Grading Policy

- Class attendance 10%
- Team projects 70%
- Final exam 20%
- Grading policy is subject to change.

- If you miss the final exam, you will fail this course.
Attendance Policy

- Do not be late! You should be present when I take class attendance.
- You can miss the class up to “four” times without any penalty.
  - Applies to excused absences as well.
- There will be a bonus for students who attend all the classes.
Questions?