INTRODUCTION TO ISPW 2019-20



AGENDA

- Myself
- Introduction to Software Engineering
- Rules
- Grading
- Project

My Self: General

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• Office: A3-06

- You got lucky:
 - Taught it several years.
 - This is what I like and what I know.

My Self: Vitae

General

- Associate Professor at CalPoly from January 2015
- Worked in 5 different countries as a researcher and teacher

Services

- 2017 IEEE Computer Society Integrity Chair
- NSF panelist and NSERC external reviewer
- IEEE Software, Associate Editor of Software Engineering Economics and Multimedia Editor
- Member at large of the 2016 IEEE CS Publications Board
- Guest Editor of the Special Issue of Technical Debt in the Journal of Systems and Software Elsevier. Software Analytics at IEEE Software.
- First author of several papers in the most important software engineering journals including TSE, TOSEM, EMSE, and IEEE Software.
- PC member of more than 50 international software engineering conferences (~8 per year).

• Publications:

- Journals: 23
- Conferences: 34
- Number of citations: ~1200
- H-index: 21
- Very good at many sports...

COURSE OBJECTIVES

- To understand principles, concepts, methods, and techniques of the software engineering approach to producing quality software (particularly for large, complex systems).
- To organize and manage a medium-sized software development project, including project plans and documentation, schedule and cost estimates, and quality assurance activities.

ISPW

- Schedule:
 - M: Room 3: 11.30- 13.00, 14.00 15.30
 - W: Room 1: 11.30- 13.00
 - F: Room C11: 11.30- 13.00
- Mailing list:
 - ispw2019-20@lists.uniroma2.it
 - https://lists.uniroma2.it/index.html/info/ispw201
 9-20
- Office Hours:
 - MWF: 9.30-11.
- Registrations of any type are not permitted.

ENGINEERING VS SCIENCE



GRADING

- Two professors, one exam consisting of two sections, two sets of topics, two grades (to be averaged).
- See schedule.

STRUCTURE

- My two-hour class can have:
 - Lecture
 - Project development
 - Homework
 - Workshop: revision of a homework

BONUSES AND INCENTIVE BASED LEARNING

- This class aims to mimic a **professional** environment.
 - All of us must perform as professionals
 - No eating, no sleeping, no social media, etc.
 - Lecture time must be considered as a business meeting
- Unprofessional behaviors will not be tolerated.
- Your failure is my failure.
- Lecture time is small
- Lots of interaction

BONUSES AND INCENTIVE BASED LEARNING

- The 3 most interactive students will receive a +5 on my grade. Criteria:
 - Number of intelligent questions
 - I like been challenged.
 - Leadership in the group
 - Professional behavior
 - All HMW provided in time

Your should prove your ability in

- Collaborating
- Asking intelligent questions
- Fixing my mistakes
- Troubleshooting alone (e.g., SonarQube installation)

HOMEWORK

- Homework is:
 - Meant to to be an opportunity to learn.
 - Not meant to be perfect.
- Will be fixed and discussed by you all.

PROJECT

- Each student is in charge of a specific item in each type of deliverables.
 - See external file for the list of deliverables.
- Code quality will be checked by an automated analyzer (SonarCloud).
- Code functionality will be checked via a recorded video and during the oral exam.

PROJECTS

- Think about a new system you want to develop.
- It has to be:
 - New
 - Attractive
 - Feasible
 - Based on Java
 - About 4K LOC
 - To be developed by a gropu of 3 people.
- Future goals:
 - Definition of:
 - The game rules.
 - The winning factors.
 - Title + Acronym