Extra-points Labs
Seminar by Daniel TILLE - Infineon
Special projects
Photography of the classes
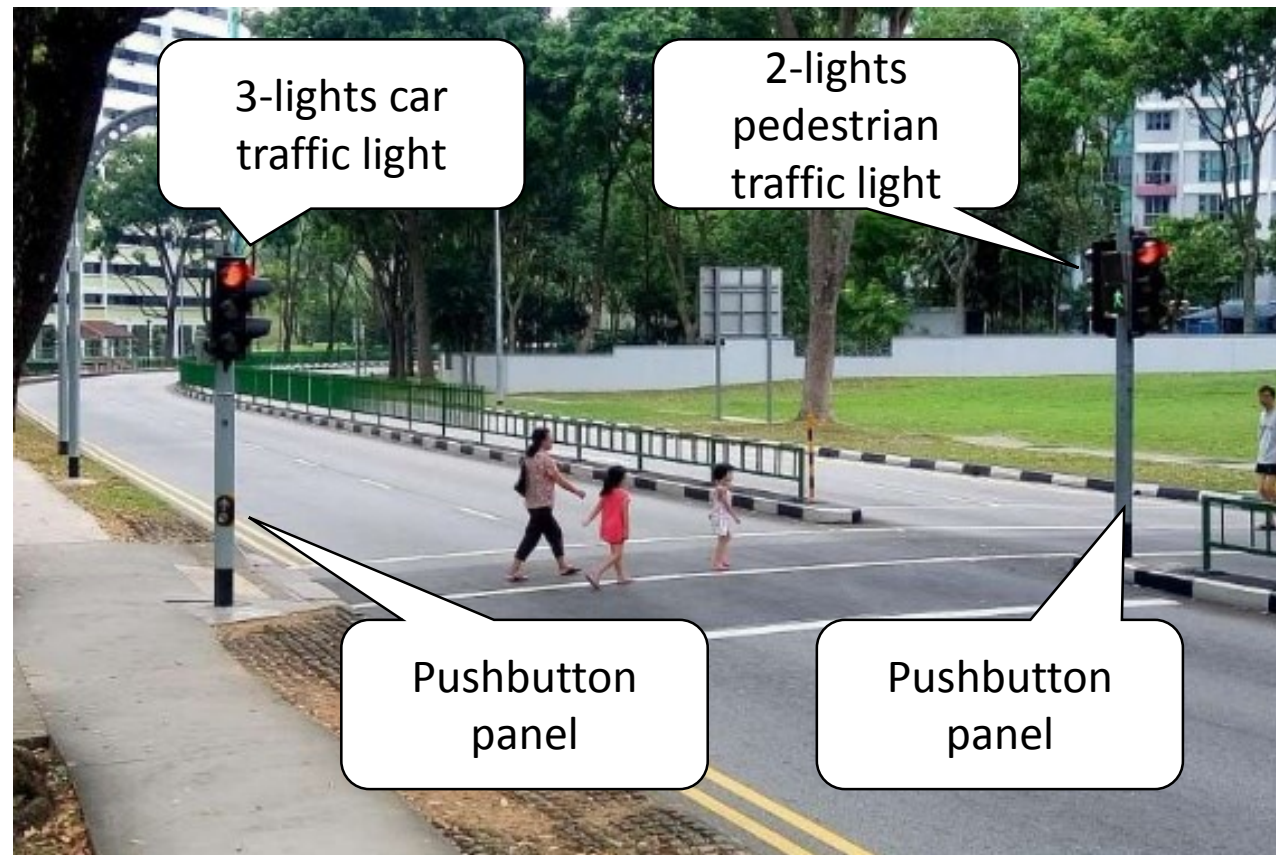
E. Sanchez, P. Bernardi

Agenda

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Extra-points project

- The pedestrian crossing traffic light

Lab extra-points

- All students delivering the solutions of at least the 75% of the first 9 laboratories qualify to receive *lab extra-points*

- The extra-points project will be done during the last 3 labs

- Detailed rules
  - Each lab solution must be delivered on the "portale della didattica" within 1 weeks from the date of the lab (weekly lab tracks will provide specific information)
  - The extra-point project need to be uploaded by **January 20, 2019**
  - It grants up to 4 extra points to be added to exam mark (provided that the exam mark is greater or equal than 18)
  - Extra-points duration is 1 year (4 exam sessions).

List of student who qualified

- The list of student who qualified will be shown after lab 9 delivery date (after 20/12)

Extra-point reward

- Extra points can be claimed at correction time after every exam
    1. You will receive a mark (in time to reserve for the following if the try was unsuccessful)
    2. A date will be communicated for you to meet proff. and see corrections
    3. If your vote is >=18, in the same date we will evaluate your extra point project.

Extra-points project parts

- The extra point project is divided into 2 part
  1. PART 1: released on Monday 17/12/18 – to be delivered by Thursday 10/1/2019
  2. PART 2: released on Monday 7/1/19 – to be delivered by Sunday 20/1/2019

Requirements and assigned points

- Both parts assign a maximum of 2 extra-points.

- In both parts you are required to develop a project
  - You have to deliver the compressed project folder *extrapoint_0?.zip*.

- ONLY for part 1 – you are required to record a short video of max 4 minutes showing the behavior of your system in SW debug mode
  - No special requirements about video format (.mpg4 or .avi can work)
  - You decide the format (just «screen & voice» or more complex).

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Thursday 10/1 – SEMINAR by Daniel TILLE

- Daniel TILLE, PhD
- Manager DFT at Infineon Technologies
  - INFINEON Campeon, Munich (DE)

- **Agenda**
- Overview Infineon
- Brief overview of AURIX *(SoC by INFINEON)*
- Motivation for Test
  - Manufacturing Test
  - DFT
  - motivation and brief overview of structural test and ATPG,
  - scan test and scan compression,
  - LBIST,
  - hierarchical scan
- Functional Safety

(Of course everything from industrial point of view and regarding Automotive quality).

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Access to *special projects*

- By **January 20**, it will be possible to submit a candidature to be enrolled in a special project that waives the ARM programming part of the exam
- Eligibility criteria are the following:
  - The student must be attending the course for the first time
  - The student should have delivered all the lab solutions in time, including the extra-points projects (1 and 2)
- Eligible students should obtain a positive outcome in an interview with the course professors
- Candidature is done by email, attaching a curriculum vitae
  - Subject: [CAs] special project.

Special projects

For each course ([A-L] and [M-Z])

- About 10 positions are available, in 3 different special projects:
  1. Development of an embedded project on a INFINEON «easy kits AURIX with sensors» (teams composed of 1, 2 or 3 students)
  2. Development of a LANDTIGER based project, (teams composed of 1, 2 or 3 students)
  3. Develop of an architectural related project using gem5 (teams composed of 1 or 2 students).
- Students must include in their email application the project or projects numbers where they would like to be enrolled (i.e., **1**, **2**, or **3**)
- Selected students will work in team groups where each member collaborates, each one with a specific role in the development of a complex application.

Special project detailed specifications

- Mark: the special project gives 30 points:
  - The special project needs to be fully completed by the deadline
  - The mark will be registered after the final delivery (deadlines in the next slide)
  - You can withdrawn from the special project at any time
  - A mark lower than 30 may be assigned in the case the project is only partially completed

- Extra-Points:
  - They will be calculated during the selection interview
  - They are added to the special project mark

- Extraordinary requests about registration date:
  - Please contact the professors to have a guidance.

Special projects (II)

- Selections 21/1 – 23/1
- Kick-off meeting 4/3
- Closure of the project 7/6
- INFINEON workshop – september 2019

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Photography of the Computer Architecture course

- We wait you, all students [A-L] and [M-Z]
- Wednesday 16/1 h.11:20
- at the «rooms I» court (underground court) for a class photography.