

CLEARSY

Safety Solutions Designer

AIX
LYON
PARIS
STRASBOURG

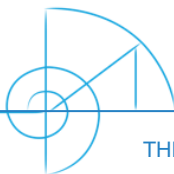
WWW.CLEARSY.COM

Jul 2023

Hackathon

Introduction

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R&D Director



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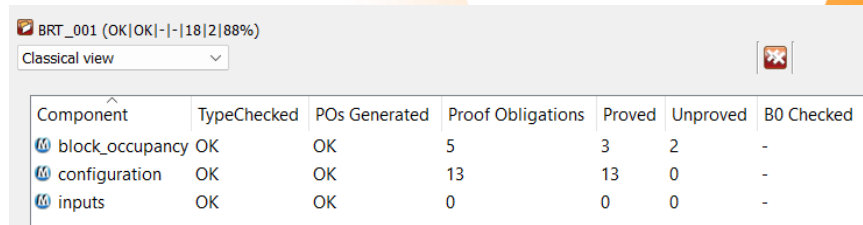
Hackathon

- ▶ Spend one week together on several B subjects
- ▶ Programme:
 - ▷ Talk: Introduction to safety
 - ▷ Presentation of a subject: topic, technical details, elements of B modelling
 - ▷ 2 or 3 subjects planned
 - ▷ You complete the modelling and provide answers to questions
 - ▷ You return to me a report with project status screenshot, models, English text for explanations, answers (Deadline: July 18th midnight)
 - ▷ Subsidiary question for ex-aequos
 - ▷ The best student get an invitation for a 6-month internship in France




Evaluation (1)

► Report

- ▷ Free content format / pdf
- ▷ Project status screenshot
- ▷ Model with comments (listing)
- ▷ Explanations: modelling decisions, difficulties, no need explain line by line
- ▷ Why is your model correct ?
 - If not 100% proved, have a look at proof obligations and explain why there are true
- ▷ Answers to questions
- ▷ All subject have the same weight – points allocation indicated in the subject



The screenshot shows a window titled "BRT_001 (OK|OK|-|-|18|2|88%)". Below the title bar is a dropdown menu set to "Classical view". The main content is a table with the following data:

| Component | TypeChecked | POs Generated | Proof Obligations | Proved | Unproved | B0 Checked |
|---|-------------|---------------|-------------------|--------|----------|------------|
|  block_occupancy | OK | OK | 5 | 3 | 2 | - |
|  configuration | OK | OK | 13 | 13 | 0 | - |
|  inputs | OK | OK | 0 | 0 | 0 | - |

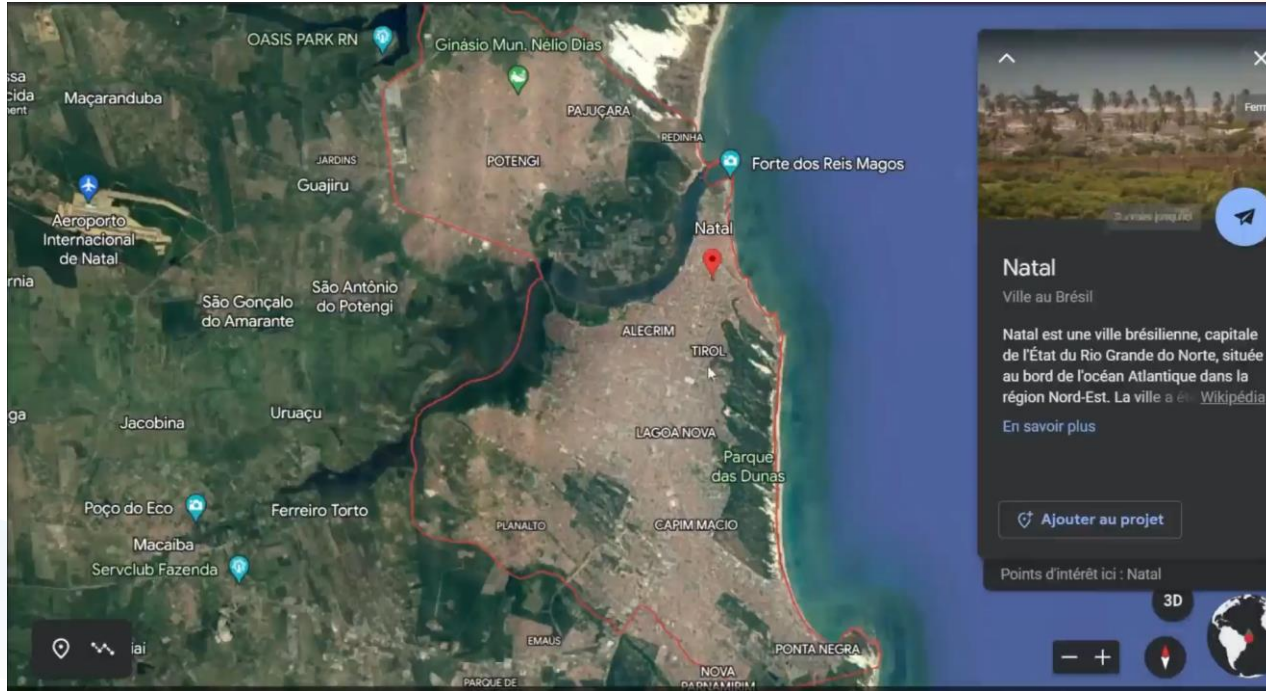
Evaluation (2)

► Report

- ▷ Subsidiary question in case of ex-aequos
- ▷ Any tool can be used including ChatGPT or similar: as Engineers, you have to solve a problem with all possible means
- ▷ Language: English preferred, Portuguese if English not precise enough
- ▷ Return report by email (thierry.lecomte@clearsy.com) before July 18th midnight
- ▷ Results published end of July.

Invitation

► Internship in Aix en Provence



Invitation

► Internship in Aix en Provence



Invitation

- ▶ Internship in Aix en Provence
- ▶ 6-month, start date to define, also French administration delay
- ▶ Subject to be defined (about B or SW development or ...)
- ▶ Expenses covered:
 - ▷ Flight ticket (TAP) Natal-Lisboa-Marseille (and return)
 - ▷ Gratification: ~1200 € / month == ~6400 R\$ / month

But everything more expensive than in Brazil (student apartment: 500€ / month)
Minimal fulltime salary: ~1 350 €
- ▶ Possible (probable) job offer during your stay
- ▶ Work language: English, French, or Portuguese with 2 ex-IMD student / teacher



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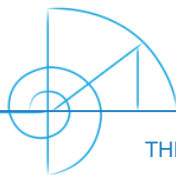
Let's start !

<https://mooc.imd.ufrn.br/>



MOOC

massive open
online course



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