

AIX LYON PARIS STRASBOURG

WWW.CLEARSY.COM

Hackathon Introduction

Thierry Lecomte R&D Director







Hackathon

➤ Spend one week together (5x 1.5h) on one subject

≥ 2023: traffic lights

≥ 2024: railways signalling

> 2025: to be disclosed, mainly safety, a bit of security

► The goal is to show

> your modelling skills and

Hackathon

the way you reason





Hackathon

- ► Programme:
 - Every day a new topic related to the subject (Part 1 to 5)
- ▶ What do you need
 - > A brain

 - > Atelier B Community edition 24.04 https://www.atelierb.eu/en/atelier-b-support-maintenance/download-atelier-b/
 - > ProB2-UI (recent) https://prob.hhu.de/w/index.php?title=Download#ProB2-UI (based on JavaFX)
 - ChatGPT is not going to help you much







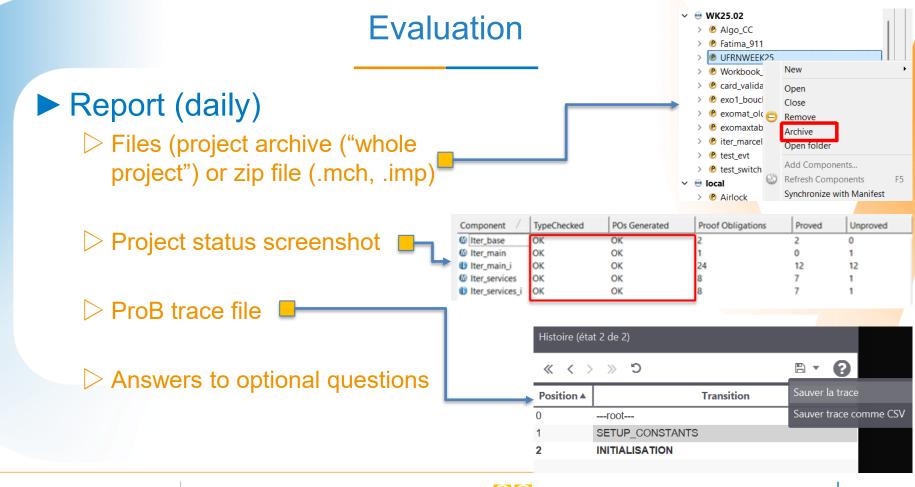
Hackathon

- Elements presented at https://github.com/CLEARSY/hackathon-2025
- ► Agenda
 - > Yesterday's subject (except day 1)
 - Presentation of one solution (mine) (pushed on github just before the session)
 - Feedback/discussion about the elements produced by the students
 - Current status of the participants
 - - Presentation of the topic: specification, technical details, elements of B modelling
 - I am available to solve any problem with the tools, with the language (syntax)
 - but the modelling is your thing
 - Subject has some constraints, but you are absolutely free to model as you wish















Evaluation

► Report (daily)

- Email: thierry.lecomte@clearsy.com
- Subject: HACKATHON P<#> <your name>
- Body: elements from the previous slide
- Sent before D+1 noon
- Except for the last day where it needs to be sent 30' before the end of the session, to correct, elect the best ones, and offers prizes





Evaluation

▶ Report

- - 8 pts for the technicalities (syntax, type, proof obligation, scenario played as expected)
 - 2 pts for the "modelling style" (readable, elegant) [Ctrl-A Ctrl-I to auto indent]
- > Optional questions: pts accumulated independently, to discriminate students with same valuation
- #1 gets a portable PC (15.6", Ryzen 7 5700U (8C/16T, 4,3GHz) 16Go RAM DDR4x2 + 512Go M.2 SSD)
- ⇒ #2 gets a SDD (1 To)
- > #1 could be invited for a 6-month internship in France in case of excellence and if interested









AIX LYON **PARIS STRASBOURG**

WWW.CLEARSY.COM

Let's start!

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







