



2021 ALTAIR STUDENT WEBINAR SERIES

Laura Rosso / Academic Liaison and Business Development Representative

Altair Student Webinar Series 2021

Laura Rosso

- **Engineer's Degree** in Industrial Engineering at University Carlos III of Madrid, Spain.
- **Master's Degree** in Industrial Engineering at University Carlos III of Madrid.
- **Academic Liaison** at Altair Spain since February 2020.
- **Business Development Representative** at Altair Spain since April 2021.



Laura Rosso

Academic Liaison and BDR

Agenda

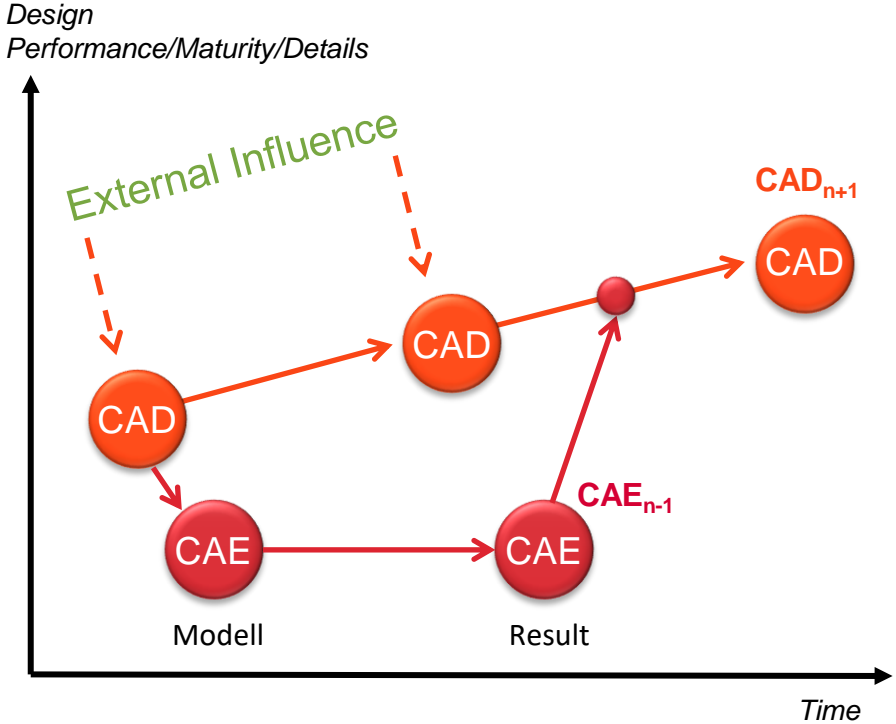
Sept 9th – EMEA & APAC Time (CEST)

Time CEST	Presenter	Topic
10.00 a.m. – 10.05 a.m.	Laura Rosso	Altair: Getting Started with Simulation
10.05 a.m. – 11.00 a.m.	Conor Smith and Marco Armellin	Lightweight Design with Altair Inspire
11.00 a.m. – 12.00 noon	Pedro Salvadores	CAD Design & Rendering of Simulation Results with Altair Inspire Studio
12.00 noon – 12.40 p.m.	Rafael Silva	Simulation of Multiphysics Phenomena with Altair Simlab
12.40 p.m.	End of Session	End of Session

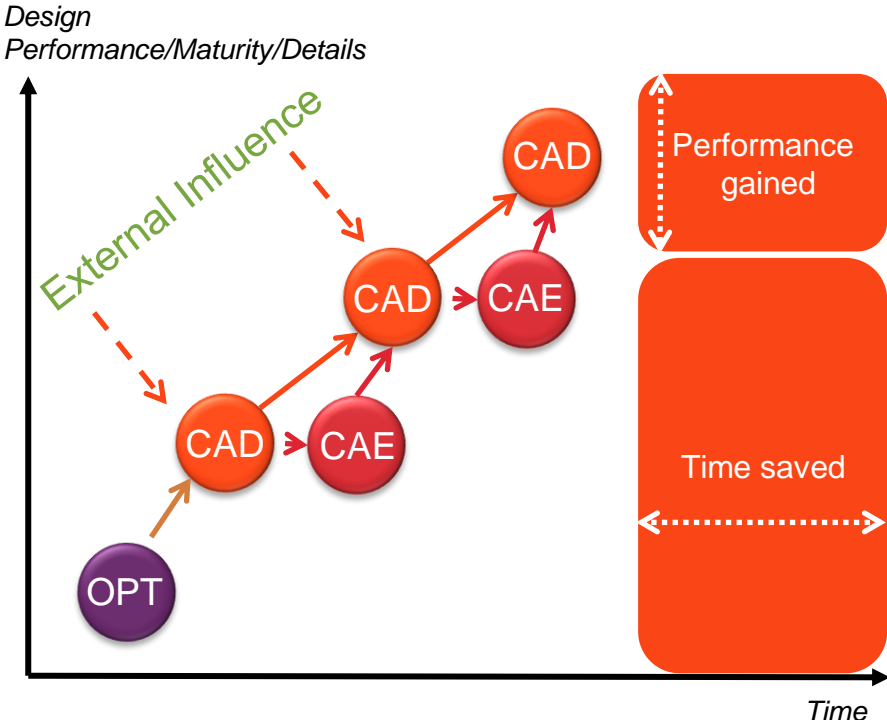
WHAT IS AND WHY USE SIMULATION DRIVEN DESIGN?

Simulation-Driven Design

Classic Development Approach



Simulation Driven Design



Altair Student Webinar Series

Altair Inspire

- **Mechanical Engineering** graduates from University of Bath, United Kingdom.
- **Design engineers** specialising in the design of outboard suspension components.
- Members of **Team Bath Racing**:
 - Founded in 2000 – one of the first UK teams.
 - 25 mechanical engineering students.
 - 1st FS Czech 2016, 3rd FS Austria 2018 and 1st FS UK 2020 (virtual).



Marco Armellin

Design Engineer – Team Bath Racing



Conor Smith

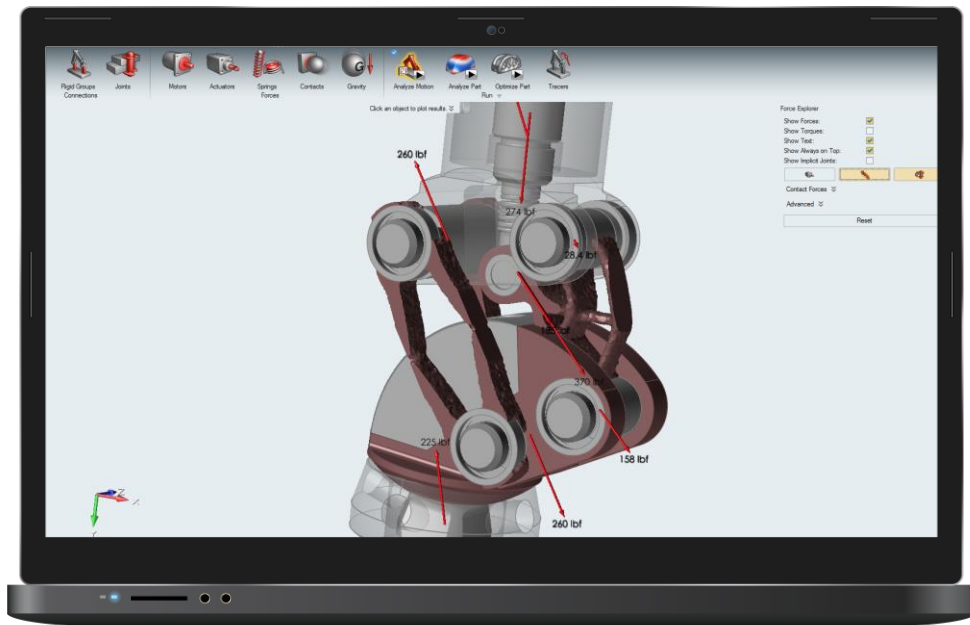
Design Engineer – Team Bath Racing

Accelerate Simulation-driven Design

Altair Inspire

Altair Inspire accelerates the creation, optimization, and study of innovative, structurally efficient parts and assemblies.

- Create and modify designs with ease.
- Optimize for manufacturability.
- Simulate at the speed of design.



Q&A

ALTAIR INSPIRE

Altair Student Webinar Series 2021

Altair Inspire Studio

- **Aeronautical Engineer** from University of León, Spain.
- **Professor** of applied physics and chemistry department at **University of León**.
- Member of the **applied physics** area at University of León.
- Technical director of **RTULE project**, Racing Team Universidad de León.



Pedro Salvadores

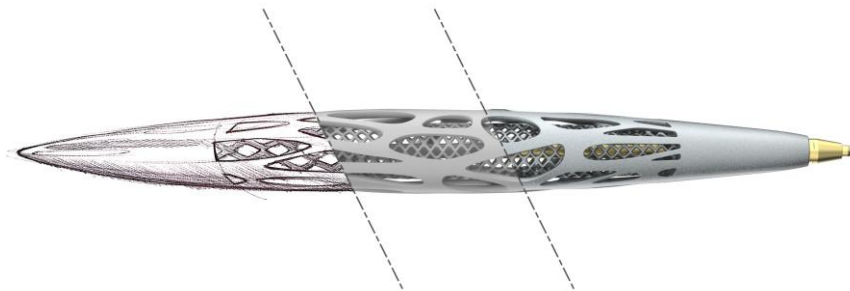
University Professor – RTULE Team

All-in-one Industrial Design Solution

Altair Inspire Studio

Inspire Studio is the new solution for innovative designers, architects, and digital artists to create, evaluate and visualize designs faster than ever before.

- Enhance creativity by letting designers drive their design
- Mix and match modelling techniques
- Create stunning images and complex animations



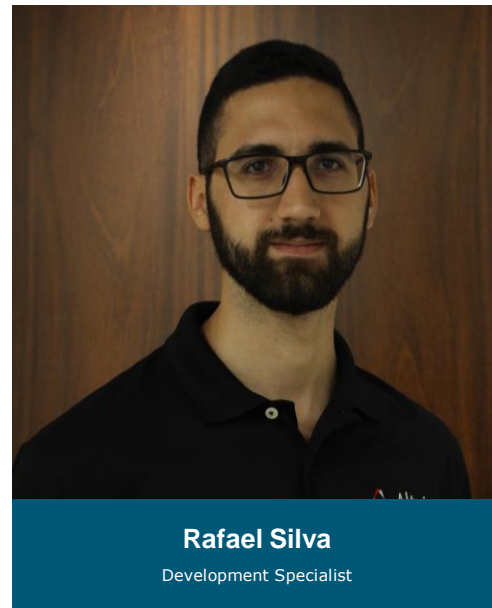
Q&A

ALTAIR INSPIRE STUDIO

Altair Student Webinar Series 2021

Altair SimLab

- Bachelor's degree in **Mechanical Engineering** at Federal University of Pernambuco, Brazil.
- **Development Specialist** since January 2019.
 - Altair SimLab Learning Center Manager.
- **Global Technical Team** member since July 2020.
 - Altair SimLab Trainings.
- Technical Documentation Engineer for **Altair SimLab** from May 2017 to December 2018.

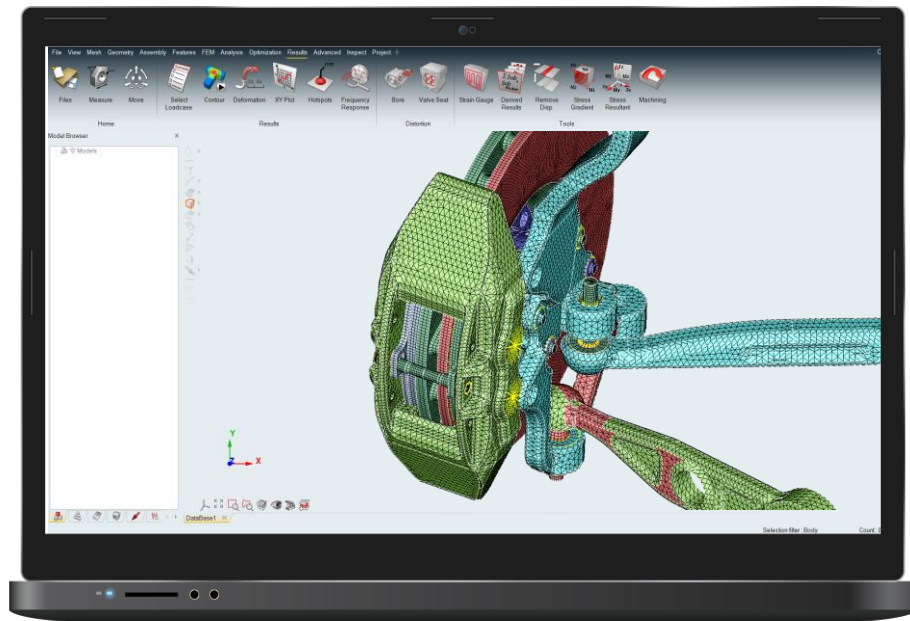


Multiphysics Workflows with CAD Associativity

Altair SimLab

SimLab is a process-oriented multidisciplinary simulation environment to accurately analyse the performance of complex assemblies. Multiple physics including structural, thermal, e-mag, and fluid dynamics solvers.

- Highly efficient, feature-based modeling approach
- Create templates to enable CAE automation
- Multiphysics analyses locally or in the cloud



Q&A

ALTAIR SIMLAB



THANK YOU

altair.com



#ONLYFORWARD