

## **Abdou Ben Ali Tcheikh Said PhD student**

[Laval University](#), Canada

Abdou Ben Ali TCHEIKH SAID holds a Master's Degree in Mechanic Engineering (Aerospace Structure) from the Laval University Canada and an Undergraduate degree in Mathematics Physics, Science Engineering from the University of the Sahel Dakar Senegal; in the meantime he takes his course of an ATPL/A frozen.

Presently, Mr. Said is working as a R&D Aerospace Structure Analyses Engineer (Load calculation of an aircraft safety landing) at Heroux Devtech Canada while pursuing a PhD degree from Laval University, Quebec Canada. Mr. Said is also one of the editors of the [Canadian Aeronautics and Space Institute](#) (CASI-Log).

RESEARCH GOALS: Mr. Said and a team of experts at Laval University are working to advance the development of the survivability of the composite aircraft in an emergency landing.

Mr. Abdou Ben Ali Tcheikh Said were awarded free full licenses of [MSC Nastran](#), [Patran](#) and [SimXpert](#) to quantify all components in the structure throughout the landing emergency event

### METHODS:

- Study the aircraft after impact with a wet and a dry surface
- Evaluate the damage tolerance
- Optimize crashworthiness of composite aircraft behavior
- Develop a Certification-by-Analysis (CBA) simulator of a full-scale composite aircraft.
- Minimize physical testing and cost of certification of structural components.