



The Aeronautical Engineer career at the Universidad Tecnológica Nacional - Facultad Regional Haedo (<http://www.frh.utn.edu.ar>) has been teaching the finite element method since 1986 in the Aeronautical Structures III course (A two semester course at the penultimate year of the career). Professors Eng. Carlos Carlassare and Eng. Miguel Bavaro taught several generations the use of the FEM until their passing away in 2010 and 2017, respectively. As their successors we continue their path of teaching future engineers the analysis of flight structures through the application of the FEM. The software used for teaching purposes has ranged from ad-hoc implementation to student version of commercial software.

We have been testing *SalomeMeca* for several years and, recently, with the implementation of *Aster_study* module we found that the software suits our needs and, as such, has become a strong candidate to replace the commercial software that we have been using during past years. Since 2020 we have included the use of *SalomeMeca* in the study programme.

Our motivation to participate in the ProNet community is to improve our understanding of *Code_Aster/SalomeMeca* to further improve our classes.

Finally, our main interests are:

- To introduce and encourage the use of open source software to teach and apply the finite element method.
- To use salome meca as a validated tool in order to update academic exercises taught in class, showing students the impact of modern calculation techniques.



Teaching courses

Aeronautical Structures III (4° year)

Phd. Pablo Alfredo Caron
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Eng. Nicolás Coppolecchia
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OS: Debian 4.9

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OS: Ubuntu 18.04

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OS: Windows 10

Fields of interest: STATIC ELASTIC MECHANICS, DYNAMIC ELASTIC MECHANICS AND BUCKLING.

Continuum mechanics (3° year)

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Fields of interest: TENSOR ALGEBRA. COMPUTATIONAL CONTINUUM MECHANICS. PHYSICS OF CONTINUOUS MATERIALS. STRESS ANALYSIS.