

D'ELIA FILIPPO



PERSONAL INFORMATIONS

Surname / First Name

D'ELIA Filippo

Address

Telephone

E-mail

filippo.delia@gmail.com

Nationality

Italian

Date of birth

25-September-1972

OVERVIEW OF SKILLS

• Education

Degree in Aerospace engineering (Old regulations)

• Skills

Project Engineering.

Static and Dynamic Stress Analysis — FEM & TESTS

Vibro Acoustic Analysis – FEM – TESTS - CORRELATION

Research and Development European Projects – H2020

• Language

Italian (Mother tongue), English (good)

• Computer skills and competences

Windows; Office; PLM System

Nastran, Patran, Hypermesh, Hyperview; Autocad

• Other skills and competences

RSPP Certified A, B, C (D.Lgs 81/08 – 106/09)

WORK EXPERIENCE

- Work Experience (Years)
- Current Company

OVERALL JOB EXPERIENCE - From September 2003 to Now

from Sept 2023 to Now - Project Engineering, technical management of various programs for aircraft seats.

from Feb 2018 to Sept 2023 - Stress Department. I deal with Static Stress Analysis, Dynamic Stress Analysis, Laboratory Tests.

FROM FEB. 2018 – PERMANENT IN GEVEN SPA COMPANY

from June 2016 to Feb 2018 – Aeronautical - Dynamic, Static and Tests on Seats and Interiors

Consulting in Geven stress team: I developed FEM simulations, static and dynamic; testing activities in collaboration with the laboratory team.

from September 2014 to May 2016 – R&D H2020-PON

I organized the projects, the partners and I wrote the documentation to be submitted to EU.

from September 2014 to September 2015 - Aeronautical – Stress –primary Structure

Consulting Activity for Alenia Aermacchi **NGTP** program, (**Fuselage Fairings**). I dealt of FE models, stress analysis by Classical procedures; writing of stress report (in English).

from March 2014 to July 2014 - Aeronautical – Stress –primary Structure

Consulting Activity for DEMA s.p.a. **Bombardier C series** program, (**Vertical Stabilizers**). I dealt of FE models, Damage tolerance by Bombardier procedures; writing of stress sheets (in English).

from October 2013 to February 2014 - Aeronautical – Stress –primary Structure

Consulting Activity for DEMA s.p.a. **Bombardier C series** program, (**Cockpit Floor Grid**). I dealt of FE models, stress analysis by Bombardier procedures, writing of stress sheets (in English).

from April 2013 to September 2013 - Aeronautical – Stress –primary Structure

Consulting Activity for Alenia Aermacchi **Airbus A321** program, (**Fuselage Frames**). I dealt of FE models, stress analysis by Airbus procedures, writing of stress sheets (in English).

from May 2011 to March 2013 - Aeronautical – Stress –secondary Structure

Consulting Activity for Alenia Aermacchi **ATR** and **SUKOY** program, (Antennas, Fairing, Interiors as Closet, Windscreen, SideWall panels, Ceiling Panels...). I dealt of FE models, stress analysis by classical procedures, writing of stress certification reports (in English).

from September 2010 to May 2011 – Aeronautical – Stress –primary Structure

Consulting Activity for Alenia Aermacchi, program **BOMBARDIER Aircraft C-Series –HSTAB**. I dealt of FE models, static analysis by Bombardier procedures; fatigue analysis (Durability); Damage tolerance analysis (Nasgro); writing of stress report (in English).

from September 2009 to July 2010 – Aeronautical – Stress –primary Structure

Consulting Activity for Magnaghi Aeronautica, program **BOMBARDIER Aircraft C-Series – Spoilers**. I dealt of FE models, static analysis by Bombardier procedures; fatigue analysis (Durability); Damage tolerance analysis (Nasgro); writing of stress report (in English).

from May 2009 to September 2009 – Rail, Trains – Stress - primary Structure

Consulting Activity for FIREMA trasporti S.p.A. located in Caserta; program **SEPSA/Metrocampania Nord-Est** (stress analysis chief). I was managed and planned the FEM activity. I dealt of FE models, static analysis by Eurocode procedures; fatigue analysis; writing of stress report (in English).

from March 2009 to April 2009 – Aeronautical – Stress –primary Structure

Consulting Activity for Alenia Aermacchi, program **C27J - Structural Repair Manual**, I dealt of FE models, static analysis by Boeing procedures; fatigue analysis by Boeing procedures (Durability); ; Damage tolerance analysis (Nasgro); writing of stress report (in English).

- Main activities and responsibilities

- Main activities and responsibilities
- Date (from – to)
- Company
- Type of business or sector
- Main activities and responsibilities

from March 2007 to March 2009 – Rail, Trains – Stress - primary Structure:

Consulting Activity for FIREMA trasporti S.p.A. located in Caserta; program **FAL (Ferrovie Appulo Lucane)**. Program **SEPSA/Metrocampania Nord-Est** (stress analysis chief). I was managed and planned the FEM activity. I dealt of FE models, static analysis by Eurocode procedures; fatigue analysis; writing of stress report (in English).

from September 2006 to March 2007 – Aeronautical – Stress –primary Structure

Consulting Activity for Sicamb SpA Company, located in Latina (Roma); program **Airbus A380 – 800F (Cargo)** in particular: **"Upper Deck Section 15 Floor Grid"**. I dealt of FE models, static analysis, writing of stress report (in English).

from May 2006 to July 2006 – Aeronautical – Stress –secondary Structure

Consulting Activity for Geven Company, located in Nola (Napoli).

Program **EADS/CASA**. I dealt of FE models, static analysis, writing of stress report (in English). of interiors as Storage Rack and Rear Bulkhead made of Sandwich structures. (Nastran – Patran).

from February 2005 to May 2006 – Aeronautical – Vibro - Acoustic - Project

Consulting Activity for Alenia Aermacchi, program research project **CONFORT**.

The program, has been developed with the participation of Boeing and other company and university of vibro acoustic sector. Have been studied the acoustic and vibration behavior of new types of aeronautical panels obtained from composite materials, viscoelastic materials and other damping materials.

from October 2004 to February 2005 – Aeronautical – Stress –secondary Structure

Consulting Activity for Geven Company, located in S. Sebastiano al Vesuvio (Na).

Program **IAE**. I dealt of FE models, static analysis, writing of stress report (in English). of a Galley made of Sandwich structures. (Nastran – Patran)

from September 2003 to October 2004 – Aeronautical – Vibro - Acoustic - Project

Consulting Activity for Alenia Aermacchi, research project **FACE**. The research was aimed to improve the acoustic comfort in the cabin, have been developed study on structural and vibro-acoustic behavior of new type of aeronautical panels made of composite materials.

I dealt of:

- Experimental tests, carrying out, in the laboratory, data acquisition (modal and acoustic), modal analysis and acoustic, of the various types of panels, writing reports for presentation of the results to the other project partners.
- Of the numerical simulation at high frequencies (using simulation software such as AutoSEA, Nastran, Patran, FemTools, Matlab),
- Finally, of the numerical and experimental correlation and writing of the final report.
- Of the finite element numerical simulation of fluid-structure coupling problems (in particular, of the estimate of noise dissipated by structures such as flat panels and curved in at certain boundary conditions) and its correlation with the experimental data.

from May to December 2003

LMS Italiana

7, P.zza Carlo Felice - 10128 - Torino - Italia

Automotive Consulting Company

Technical support for the company LMS Italiana in ELASIS (FIAT group company located in Pomigliano d'Arco). I dealt of the support of experimental research, in the vibro – acoustic and structural sector, and of the dealing between LMS and ELASIS.

- Date (from –to)
- Company
- Type of business or sector
- Type of employment
- Main activities and responsibilities

Education and training

- Date
- Name and type of organization providing education and training
- Principal subjects / occupational skills covered
- Title of qualification awarded
- Thesis

POST GRADUATE COURSES

- Date (from –to)
- Tipo of course
- At
- Name and address of employer
- Type of training

- Date (from –to)
- Tipo of course
- At
- Name and address of employer
- Type of training

from December 2002 to July 2003

University of Naples – Aeronautical Engineering Department
Consulting Activity for Automotive Sector Company
Task of scientific collaboration

Verifying of the Proper Operation of an innovative system for acoustic excitation of fuselages, it will be used in the FACE project (Friendly Aircraft Cabin Environment), for the acoustic characterization of the aircraft. The check of the excitation system was carried through experimental base. All this data was carried out in the laboratories of acoustic Alenia Aermacchi.

March 2002

University of Naples "Federico II"
University of Aerospace Engineering

Official Study plan

Degree in Aerospace Engineering with specialization Space (Old Regulations).

The thesis, numerical-experimental, entitled "Experimental application of the SEA technique" was developed in the acoustic laboratory of Alenia in Pomigliano D'Arco (Naples) and the department of aeronautical design of the 'University of Naples. In it I discussed the study of structural vibrations, acoustics and numerical correlation of the cylinder fuselage ATR 42.

from May to July 2003

Training

- Fiat auto (located in Mirafiori, Torino)
 - ELASIS Fiat group (located in Pomigliano d'Arco, Napoli).
- LMS Italiana

Insights and studies in the field of acoustics and vibration. They were divided into a theoretical part and an application. The first dealt with: signal analysis, rotating machinery analysis, modal analysis, structural intensimetry, acoustic holography. The second consisted of a series of applications of the theory with the aid of software LMS.

from April to November 2002

Stage/Cooperation

Alenia Aermacchi (Pomigliano d'Arco – Napoli)

University of Naples "Federico II" – Aeronautical Engineering Department .

Stage in Alenia for further information and research studies on the topic of vibroacoustic, studies using structural and acoustic modal analysis of aeronautical structures, also in collaboration with other companies.

MOTHER TONGUE
OTHER LANGUAGES
• UNDERSTANDING
• WRITING
• SPEAKING

ITALIAN
ENGLISH
Level: Good
Level: Good
Level: Good

SOCIAL SKILLS AND
COMPETENCES

Excellent ability to insertion in a group, excellent ability to relate to, the ability to work in teams.
I am extremely confident that the cultural and professional growth of an individual occur, when, within a group, each provides the other their knowledge

ORGANISATIONAL SKILLS AND
COMPETENCES

Great sense of responsibility, accuracy and thoroughness in coordinating and carrying out projects.
I am a very precise and practical, aimed at achieving the objective in a precise and direct way.

COMPUTER SKILLS AND
COMPETENCES

• OS
Windows 11,
• Software
Office (excellent knowledge).
Patran, Nastran, HyperMesh, HyperView for Finite Element modeling and structural analysis (excellent knowledge);
Autocad (excellent knowledge);
PLM system (project / program management)

DRIVING LICENSE

A - B