

SENIOR ENGINEER - PMP®

PERSONAL INFORMATION

<i>Surname, Name</i>	SAMMARCO, Antonio
<i>Place, date of birth</i>	Roma, 15 TH of April 1969
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WORK EXPERIENCE

<i>February 2015 - current</i> LEONARDO HELICOPTERS DIVISION (Cascina Costa - VA)	<i>EASA AW139 Occurrence Report Specialist (on behalf of NEOS - TPS)</i> Investigation on incidents occurred during AW139 service, production or maintenance and definition of the corrective actions. Issue of EASA Occurrence Reports.
<i>July - December 2014</i> LEONARDO AIRCRAFT DIVISION (Venegono Superiore - VA)	<i>Senior Technical Consultant (on behalf of SIPAL)</i> STRESS and FATIGUE analysis of FALCON M1000, new PW307D motorization.
<i>July 2013 - July 2014</i> THALESALENIASPACE (Torino)	<i>Senior Technical Consultant (on behalf of ORTEC GROUPE)</i> Definition of the primary structure of EUCLID (static and dynamic analyses) up to the Preliminary Design Review. Mass Saving of MPCV (Multi Purpose Crew Vehicle).
<i>February 2008 - May 2013</i> ALENIAAERMACCHI (Venegono Superiore)	<i>Senior Technical Consultant (on behalf of ORTEC GROUPE)</i> Help Customer in equipment and resources management for the M346 CERTIFICATION . Stress and Fatigue Test preparation and execution on M346 primary components. Set-up and monitoring the M346 Aileron, Flap and Vertical Tail (Buffet) fatigue tests (from load definition to test data processing). Set-up of Carbon Fiber Composite coupons test (with manufacturing, BVID and VID damages).
<i>March 2002 - January 2008</i> ALENIAAERMACCHI	<i>Aerospace Unit Manager (ASSYSTEM)</i> Team Leader and Focal Point on customer site, managing engineers and designers working on several projects: M346, M311, Boeing 787 elevator and Boeing 787 Nacelles. For the M346 Pre-Series, involved in the M346 Full Scale Static and Fatigue Test (Certification): definition of loads, test simulation by FEM, test execution, data processing and correlation. Performed test activities on single items (i.e. Wing, Flap, Control Chain, Seat Fittings, Airbrake, Fin, Horizontal Tail, etc.). Review of stress reports concerning primary and secondary structures of the first two prototypes. Fatigue test simulation of wing of the first prototype.

Design/Sizing of a Bench Support for dynamic response and resonance test of avionic instrumentation. For the BOEING 787 Nacelles, checking the stress analyses/reports concerning the RR T1000 Fan Cowl hinges.
Design/Sizing of the rig structure for the ANTI-ICE SYSTEM TEST of **CF34-10 Inlet**.

2000 - 2002

ALENIAAERMACCHI

Team Leader (ASSYSTEM)

In charge of the Stress Office, managing several Work Packages concerning the International Space Station modules and components: **ATV**, **EDR** rack, **FSL** rack and **CUPOLA**.

2000 - 2002

EADS AIRBUS
(Toulouse)

Stress Engineer (ASSYSTEM)

Being involved in short assignments in Toulouse to supervise and check some projects concerning the **AIRBUS A340-500/600** primary and secondary structures (hoisting points and support platines).

2000 - 2002

EADS ASTRIUM
(Toulouse)

Stress & Dynamic Engineer (ASSYSTEM)

Taking part in a tradeoff study for **FOG** (Fiber Optical Gyroscope - INTERNATIONAL SPACE STATION), carrying out a feasibility study.
Stress and dynamic engineer for the **ACCA IMU** project (ISS accelerometers), evaluating the dynamic interface accelerations and forces due to the ATV separation explosions.

2001

RECO
(Monza - MI)

Stress Engineer & Designer

Project creator (design and sizing) of Thermoplastic WHEEL CHOCK and REAR BUMPER for industrial vehicles (TUV – DIN 76051 and 70/221 homologation, <http://www.recosrl.it>).

2000

VALEO
(Pianezza)

Stress Engineer (STUDITALIA)

Nonlinear stress and dynamic analyses for automotive components (i.e. clutch actuator).

1998 - 2000

AEROSPATIALE
(Cannes)

Stress Engineer (STUDIA)

Employed as Stress Engineer working on Customer site (Aérospatiale). Performed stress and dynamic analyses on the **ATV module** (INTERNATIONAL SPACE STATION) concerning flight and pressure loads as well as dynamic responses to launch events.
Chargé d'affaires in Torino, management of Work Packages supplied by Alenia Spazio.
Design of a test bench for optical structures (**HUBBLE**) on thermoelastic analyses.

EDUCATION

Master Degree (5 years course) in **AEROSPACE ENGINEERING** at the University of Rome 'La Sapienza'.
Thesis at the Aerospace School of Rome: "Updating Procedures of Spatial Matrix in Finite Element Models". Grade: 106 out of 110
Diploma in AERONAUTICAL STRUCTURES EXPERTS at I.T.I.S. G.Galilei, Rome. Grade: 55 out of 60

JOB SKILL & COMPETENCES

Strong experience in design and sizing (hand calculations) of mechanical components for **METALLIC** structures as well as for **COMPOSITE** ones.

Strong knowledge and experience in use of the **FINITE ELEMENT METHODS** applied to the stress (LINEAR/NONLINEAR) and dynamic (MODAL, RESPONSE, SHOCK, PSD) analyses. Aptitude to manage the main FE tools (pre and post-processor).

Well strengthened knowledge of the principal **structural materials** (steel, aluminum and titanium alloys, CFC, GFRP) and their Standards (ASM, AISI, MIL, MMPDS, etc.).

Strong knowledge of the principal aerospace, aeronautical and mechanical **stress and dynamic analysis methodologies** (BOEING, NIU, LOCKHEED, EADS, AIRBUS, NASA, ASTRIUM, etc.).

Well knowledge of Project Management (PMP® CERTIFICATION).

Experienced in Customer account, WP quotations and procurement documents (RFP, IFB, RFQ).

Strong knowledge of the main MS Apps and their tools (i.e. Excel calculation sheets with VBA macros).

Experienced in programming and use of the main O.S. (Windows, Unix, Linux).

Ability to work in team in multicultural environments. Leadership capacity, very good communication and organizational skills, sense of responsibility. Results oriented. Excellent analytical capabilities.

Experienced in resources management.

LANGUAGES

ITALIAN *mother tongue*

ENGLISH	reading	writing	verbal
	GOOD	GOOD	GOOD

FRENCH	reading	writing	verbal
	GOOD	BEGINNER	GOOD

TECHNICAL SKILLS

MS PROJECT & MS OFFICE

FINITE ELEMENT SOFTWARE (NASTRAN, PATRAN, FEMAP, ANSYS, ABAQUS)

CAD (AUTOCAD, CATIAV5)

SIGNAL TREATMENT SOFTWARE (DYNAWORKS)

MATHEMATICAL SOFTWARE (MATHCAD, MATLAB)

PROGRAMMING (FORTRAN, DMAP, VBA, C++)

O.S. (WINDOWS, LINUX)

SAP / INTERNET APPLICATIONS

OTHER

PMP® Certified (PROJECT MANAGEMENT INSTITUTE)

Member of Engineers Association of Varese

Driving License B

HOBBIES & INTERESTS

Computer, Electronics, Architecture, Photography, Motorcycle, Arts, Robotics, 3D printing.

SPORTS

Ski, Swimming, Tennis.

Autorizzo il trattamento dei dati personali ai sensi del D. lgs. 196/03