



Leonardo Sistemi Integrati S.r.l.

Sede Legale e operativa: Via Greto di Cornigliano, 6r
16152 Genova

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CURRICULUM VITAE

Name	Francesco CAPRILE
Date of birth	12/04/1980
Nationality	Italian
Education	Degree in Electronics Engineering at University of Genoa, Italy
Company	Leonardo Sistemi Integrati SRL
Occupation or position held	BU Manager/Chief Technical Officer
Main Activities	Management of Design Office
Dates	2009 - today
EXPERIENCES	
Dates	Occupation or position held, Main activities
June 25, 2018 - today	<p>Company: Gemelli S.p.A.</p> <p>Position: Chief Technical Officer</p> <p>Management of Design Office, management of civil and military design programs.</p> <ul style="list-style-type: none"> • Engineering and Design Management (Part 21 J) • Airworthiness Management (Part 21 J) <p>Position assumed in the context of a collaboration between Gemelli SPA and Leonardo Sistemi Integrati SRL that foresees the technical office management taken in charge by LSI.</p>
Dec 2015 – today	<p>Company: Leonardo Sistemi Integrati S.r.l.</p> <p>Position: Functional Safety & Certification Area Manager</p> <ul style="list-style-type: none"> • Functional Safety & Certification Area Technical Proposals redaction. • Functional Safety & Certification Area team management. • DO-254 certification support for AHRS NAVEX-100 Complex Hardware, Northrop Grumman Italia. • ETSO certification support for AHRS NAVEX-100 equipment, Northrop Grumman Italia. • Engineering Management for Weapon Control Unit boards, MBDA. • Inertial Measurement Unit Safety Assessment for defense applications, Northrop Grumman Italia. • Reliability and Safety activities for Miscellaneous CP on AW119MKII platform, Sirio Panel. • Reliability and Safety activities for GEM-30 system, Gemelli. • STB availability assessment, Leonardo S.p.A. for Aéroport de Paris, Paris-Orly.
May 2013 – Dec 2015	<p>Company: Leonardo Sistemi Integrati S.r.l.</p> <p>Position: Senior Avionic System Engineer Consultant in Piaggio Aerospace / Logistic Engineering BU Manager (Part Time, just management tasks)</p> <ul style="list-style-type: none"> • High Level Technical Requirements and Design Technical Requirements for the MPA Cockpit Control Panels related to the following systems: <ul style="list-style-type: none"> ○ <i>Anti Ice, External Lights, Air Data System Reversion, Attitude & Heading System Reversion, Flight Display Reversion, Magnetic / Direct GYRO Heading, Bleed Air, Emergency Comms, Ground OPS, Sys Test, ATC Transponder, IFF, TAWS, TCAS, CVDR, LDS, Hydraulic System, Landing Gear, Steering and Antiskid, Power to Interphone, Mission Comms and Mission Consoles; Mission Video Selection EO/IR.</i> • Integration Problem solutions for the Cockpit Control Panels (Loads Evaluation, Bonding/Grounding solution evaluation, Third Parts Systems Logic Activation specification, HMI definition), Aircraft Systems Wiring Diagrams Support (concerning



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avionics and cockpit control panels).

- Supplier Technical Documents Evaluation and Comments Discussions (ICDs, Technical Specifications, Schematics, Ground/Flight Tests Documents).
- Supplier Certification Documents Evaluation and Comments Discussions (PSAC/PHAC RTCA DO-178B/DO-254, Safety Documents, Qualification Plans etc).
- Management of Cockpit Control Panels JDP (Joint Design Phase).
- Feasibility of the Integrated Modular Avionics standard (RTCA DO-297) requirements application and certification process support for Pro Line Fusion Rockwell Collins Avionic System Life Cycle on MPA platform.
- Equipment Requirement Specification for the following Piaggio MPA3 aircraft Systems:
 - Cockpit Voice and Data Recorder,
 - Integrated Standby Instrument System (Air Data, Attitude and Heading standby instrument),
 - Digital Chronometer,
- Support to the Equipment Requirement Specification for the following Piaggio MPA3 aircraft Systems:
 - Stall Warning System,
 - Inertial Reference System.
- Interface Control Document of the MPA3 Avionics System.
- Requirement Specification of the whole Avionics System for the MPA3 Prototype #1 (For the Flight Test Campaign).
- Requirement Specification of the Stall Warning System Software Configuration for the MPA3 Prototype #1 (For the Flight Test Campaign).
- Requirement Specification of the MPA3 Avionic System Ground Demonstrator Test Set (and support for relevant NI PXI cards selection).
- Requirement Specification of the Integrated Standby Instrumentation System Software Configuration for the MPA3 Prototype #1 (For the Flight Test Campaign).
- Support to the Supplier Equipment Compliance Matrix Evaluation.
- Integration of the aircraft optional functions in the MPA3/P.180 Avanti II (Rockwell Collins Pro Line Fusion equipped) Functional Hazard Assessment (LPV, EGPWS, TCAS II, SVS, IRS, IFF, ADS-B OUT, CPDLC, RNP Approach Capability, XMWX).
- Revision and Avionics-Related Comments proposition for the MPA3/P.180 Avanti II (Rockwell Collins Pro Line Fusion equipped) FHA document.
- Environmental Requirements Identification for the MPA3 aircraft zones (according to the RTCA DO 160G standard).
- Support to the E3 Requirements Identification to the MPA3 aircraft zones (according to the MIL-STD-516B, MIL-STD-461, MIL-STD-464, RTCA DO-160G standards).
- MPA3 aircraft configuration description document related to the following ATA Chapters: ATA 22, ATA 23, ATA 31, ATA 34, ATA 45.
- Certification Activity Support (Systems Design Reviews against EASA or JAA requirements) for P.180 Avanti II or P166 DP1 aircrafts.

Lifecycle Process Reported Activities are conforming mainly as listed here below:

- Design Assurance – SAE ARP 4754, DO-297, DO-178B, DO-254,
- Safety – SAE ARP 4761, MIL-STD-882,
- Airworthiness – EASA CS-23, MIL-STD-516B,
- Qualification Requirements – DO-160 (Applicable Version), MIL-STD-461/464,



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- *Specific Application – Applicable ETSO/TSO, AC/AMC, TGL.*

2009 - 2013

Company: Leonardo Sistemi Integrati S.r.l.

Position: Logistic Engineering BU Manager

System Engineering Activities

- PNRM (Programma Nazionale Ricerca Militare) Avionic Military Wireless Communication System Demonstrator Model Development, Selex Galileo;
 - Wireless Technologies Selection for the Mission Computer Functions,
 - Demonstrator Requirements Specification,
 - Performances Evaluation related to the Mission Computer Requirements – Selection of the methodology for the Requirements Compliance Demonstration,
 - System Architectural Requirements.
- BDSL System Requirements Identification Activity, OSN.
- IDEANA Research Program System Requirements Identification Activity, Eurostar.
- Psyops System E-Learning Design Support, Syes.
- Availability Model for AGS System NATO.
- Definition of technical requirements for the Quick FMEA software, LSI.

Product Support and Certification Activities

- Logistic Engineering activities Technical Proposals redaction.
- Logistic Engineering Programs Quality Processes Definition.
- Electronic Modules Simulation-Based Stress Analysis and Reliability/Safety validation for the DCP equipment ATR 72 Platform, MES Roma.
- RMTS analysis for the DMC equipment ATR 72 Platform, Selex Communications.
- Reliability Prediction for the Interfono System M346 Platform, AMB.
- RMTS analysis for the MSR115 network equipment, Selex Communications.
- RMTS analysis for the MSR165 network equipment VBM Platform, Selex Comms.
- RMTS analysis for the CM107E equipment NH-90 Platform, Selex Communications.
- Reliability analysis for the ECDU equipment, Sirio Panel.
- FMECA & RCM study for the Roselectra Power Plant, Ansaldo Energia.
- RMTS Analysis for the RCU604 (Radio Control Unit) equipment, Logic.
- Integrated Logistic Support for the TESEO stabilized platform, EuroControl.
- Reliability and Testability analysis for the Echo-Simulator equipment, Selex Communications.

RMTS Reported Activities are conforming mainly as listed here below:

- *Reliability – MIL-HDBK-217F, MIL-HDBK-338B, PRISM, NPRD-95,*
- *Maintainability – MIL-STD-470, MIL-STD-472,*
- *Safety – MIL-STD-882, CEN 50126/128/129, IEC 61508, AER.P 2,*
- *RCM – NAVAIR 00-25-403,*
- *ILS – MIL-STD-1388B.*

Technical Training and Didactic Activities

- Delivery of the course “Reliability and Maintainability for Airborne Electronic Equipments”, 4° Reggimento Sostegno Aviazione dell’Esercito AVES “Scorpione” (Italian Armed Forces).
- International training activities for FHN Communication System OP&MAN course in French language – (Forces Armées Royales, Morocco), Selex Communications.



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	<ul style="list-style-type: none"> • Delivery of the course “Modelli matematici e statistici in applicazioni affidabilistiche e di supporto logistico”, DIMA (Dipartimento di Matematica) - Genoa University. • Delivery of the internal course “Safety Critical Software Certification in Airborne Systems – RTCA DO-178B”. • Delivery of the internal course “Safety Related Systems in Industrial Plants – IEC-61508 / IEC-61511”. • Delivery of the internal course “Management and Maintenance of Electronics Control Systems”, Former. • “Relatore Aziendale” (Industrial Supervisor) for the following Academic Thesis: <ul style="list-style-type: none"> ○ <i>Analisi delle Modalità di guasto di sistemi elettronici tramite simulazione comportamentale ed il linguaggio di descrizione del Hardware VHDL-AMS (Università degli Studi di Genova- Facoltà di Ingegneria).</i> • “Commissario Esperto” for the following Academic Thesis: <ul style="list-style-type: none"> ○ <i>Applicazioni dei processi stocastici per la teoria dell’affidabilità (Università degli Studi di Genova – DIMA, Dipartimento di Matematica).</i>
<p>2008 - 2009</p>	<p>Company: Leonardo Sistemi S.r.L. Position: RMTS Focal Point</p> <ul style="list-style-type: none"> • ML3 (circuit level) Troubleshooting procedures definition for DME equipment (Distance Measurement Equipment) EFA Platform, Selex Communications. • RMT activities for MMR Equipment (Multi Mode Receiver) Tornado Platform, Selex Communications. • RMT activities for Link 11 tactical Network NH90 Platform, Selex Communications. • Safety Assessment for UAV ITALIAN RAVEN B micro airborne certification according to AER.P-2 Standard, Thales. • RMT and ILS activities for MH544 radio equipments, Selex Communications. • RCM analysis for Turbo Gas systems, Ansaldo Energia. • RMT activities for 120 HITFACT system and VBM system, OTO Melara. • RAM activities for AFCS, CA&T and SCADA railway systems, ELSAG.
<p>2006 - 2008</p>	<p>Company: Leonardo Sistemi Position: RMTS Engineer</p> <ul style="list-style-type: none"> • RAMT&S analysis for FCC equipment (Flight Control Computer) M346 Platform, Selex Communications. • Safety analysis for MGS-NI equipment (Air Traffic Control), OTE. • Testing definition for SRT-651/N-S e SRT-651/P radio systems EH101 Platforms, Selex Communications.
<p>2006</p>	<p>Company: SIConsulting Position: Safety Area Engineer</p> <ul style="list-style-type: none"> • Support Activities related to the safety area.



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2005 - 2006

Company: SUPSI & DIBE

Position: International HF Research Team Member

- Member of the Microwave TAC international project team.
- MoM and FEM simulation models applied to Non-Destructive Testing.
- Inverse Scattering Problems research.

Publications

"Tomografia a microonde per una applicazione di diagnostica non-invasiva nell'industria del legno" A. Salvadè, M. Pastorino, R. Monleone, T. Bartesaghi, F. Caprile, G. Bozza, A. Randazzo RINEM 2006

Attended Courses

Aeroconseil (AKKA technologies group) 22/11/2016 – 24/11/2016 – DO-254 Training

CEI Milano 13/05/2010 – 14/05/2010 – "Sicurezza funzionale nei sistemi di controllo dei processi industriali, guida all'applicazione della norma CEI EN 61511"

English language: "Communication in the work environment", performed by InLingua

Languages

Italian (Native speaker), French (Excellent), English (Advanced)

Certifications

TUV Functional Safety Engineer (SIS) – TUV FS Eng. Id Number 3882/11

<https://www.tuvasi.com/de/trainings-und-workshops/fs-engineer/listen-der-tuev-fsengù>

Certified IPC Specialist IPC-A-610 – A610SF-19101827945