LUCA SANDRO – CURRICULUM VITAE

Name: Luca; **Last Name:** Sandro;

LANGUAGES SPOKEN: Italian (mother tongue); English (good level);

EDUCATION:
University Degree: Electronic Engineer (five year course)   **Final Result:** 98/100.
University: Tor Vergata University, in Rome;
University Faculty: Electronic Engineering, specializing in Microelectronics.
Certified Public Profession for Every Engineering Field (*by State Exam with a final result of 118/120***).**

Dissertation*:* "Technologies to design and produce MEMS devices; nanometric thin-film thermocouple design and production"; activity of research, design and production of the device defined at C.N.R. (National Council of Research).

Ph.D. with the European Commission *in* **Sensors and Learning Systems** *at "Microelectronic and Microsystem Institute" of the National Council of Research in cooperation with the University of Tor Vergata.*

Master's Degree: *Master Degree in Micro e Nano Engineering (one year course, University of Tor Vergata).*

Post Doctoral Education and Training:

1. Methodologies of the design of the electrical systems of civil and industrial infrastructures.
2. Qualification in Safety Measures in Italian Civil Engineering.

Employment History (2001-2005)

Cooperation with the C.N.R's "Institute for Sensors, Micro-systems, Nanosystems Design and Fabrication"; specializing in micro and nano technologies improvement, new micro-systems design, new micro-electromechanical devices design, new sensorial systems and sub-systems.

Involved in close cooperation with the Italian University of Tor Vergata, in micro and nano-sensors designing, organization of international workshops called "Euro-Sensors".

Involved in writing textbooks and teaching courses in Micro-Electronics for 4th and 5th year students. Coordination of many students through their university degrees.

Team Member of the Engineering Design Group (of Tor Vergata University, Microelectronic Institute) of the *Electronic Nose* (Shuttle electronic equipment for internal air monitoring).

Electronic and Aviation Field:

Monitoring of functionality of some electronics devices for helicopters.

Participation in system and product aeronautical audits.

Infrastructure Field:

Team Member of Surveillance Teams of many Airports.

Auditor of many Airport Management Societies.

Analysis of many problems regarding airport operations and infrastructures; direct evaluation and proposal of solutions.

President of many commissions for the certification of Airports Infrastructures.

Involved in surveillance and supervision of many airport infrastructures under construction.

Involved in technical evaluation about new technologies compliance and compatibility for airport infrastructures.

Team Leader in Approval Process of Design of Complex Airports Infrastructures.

Team Leader in Approval Process of Design of Electrical and Technological Infrastructures of Complex Airports.

Team Leader in many Certification Process of Aeronautical Products for Infrastructure application (Led AVL Lights, Led Obstacle Lights, Self-powered Aeronautical Lights, other).

Partnership with Sapienza University and Tor Vergata University for Airports Technological Infrastructures teaching.

Involved in technical evaluation about conformity and release of technical authorization of many different technological infrastructures in Italian Airports (AVL and their control e monitoring system, electrical power energy distribution, systems for production and distribution of heat and cool air and water, electronic and mechanics system for bags screening, security technologies, other).

Teacher of Electronics for Aerodromes AVL in *Civil Aviation – University Master (MAC) since 2013.*

PROFESSIONAL QUALIFICATIONS:

FORMALLY QUALIFIED FOR TEACHING IN MAY 2019.

Advanced knowledge of:
1) information technology systems; -- 2) electronic hardware; -- 3) Windows Operating System and principal associated programs; -- 4) Office Packet; -- 5) math programs as Matcad, MemCad; -- 6) electronic design and behaviour simulation software as Orcad, Spice, Microwawe Office. Advanced knowledge of Autocad.

Training courses (external courses):
o   Course in Satellite Communication;
o   Course in Energetic Certification Process for Infrastructures;
o   Course in Design for Solar Energetic Systems for Infrastructures;

Training courses (internal courses):
o   Course in Airport Certification.
o   Course in Techniques of Audit (Qualified).
o   Course in Easa Regulation.
o   Course in Easa Regulation Part 21.
o   Course in Easa Regulation Part 21 DOA/AP and relative amendments.
o   Course in Easa Regulation Part 66 e Part 147.
o   Course in Type Certification;
o   Course in EASA Airport Certification Process.
o   Course in Airport Capacity - Performance Indicator and Analysis Tool for Airports.
o   Course in Electrical Wire Interconnection for Airplanes (2012).
o   Course in Risk Management (2019).

LEANDING ROLE AT INTERNATIONAL LEVEL

1) *Secretariat - from 2011:* CEI - Italian Elettrotechnical Committee – Technical Committee 97 "Electrical installations for lighting and beaconing of aerodromes".

2) *Secretariat - from 2014:* CENELEC - European Electrotecnical Committee – Technical Committee 97 "Electrical installations for lighting and beaconing of aerodromes".

3) *Member:* IEC – International Electrotechnical Commission - Technical Committee 97 "Electrical installations for lighting and beaconing of aerodromes".

4) *Member/Expert from 2011:* International Civil Aviation Organization ICAO/OACI - VAWG Visual Aids Working Group;

5) *Member/Expert from 2017:* ECAC - Technical Group for Security;

6) *Member/Expert from 2016:* National Task Force for RX Technology for Airports acceptance/evaluation process;

Rome, lì 25-02-2022