Curriculum Vitae

PERSONAL INFORMATION **Massimiliano Dispenza**

WORK EXPERIENCE

2020 - date

Leonardo S.p.A. – CTIO - Head of Quantum Technology & Optoelectronic Labs

- Principal Investigator & responsible for Fund Raising in Quantum Technology & Optronics
- NATO SET Panel:Appointed National representative
- NATO NIAG SG-252 "Emerging and Disruptive Technologies (EDT) in the context of Emerging Powers": Team Leader for Team 5 (Quantum)
- EDA: National rep. in Captech EOST (Optronics) & Captech TCM (Components),

2017 - 2020

Leonardo S.p.A. – Electronics Division - Senior Expert

- Technical Head of Company Funded Project Ventures on: Miniaturised IR Cameras, AI for Computer Vision, Additive Manufacturing for IR cameras, Quantum Key Distribution
- NATO von Karman Horizon Scanning on Optronic 3D Imaging Systems Experts Group
- EDA: National rep. in Captech EOST (Optronics) & Captech TCM (Components),
- EC DG-CONNECT: PoC in Expert Group for an EU Quantum Communication Infrastructure
- Proposals preparation for Fund raising (EDA, DG-Connect, PNRM, …) in various domains of Divisional interest (SMART AESA systems, System On Chip, SMRFs for UAVs …)
- Technical Head for several R&D Projects (H2020, EDA, National, etc.)

2015- 2017

Leonardo S.p.A. - Head of Microelectronics Technologies Area

- Responsible for R&D and Manufacturing in
  - Microelectronics Assemblies and modules
  - Fiber optics Systems Design and Integration
  - Optoelectronic Components

2010- 2015

SELEX ES S.p.A. (a Finmeccanica Company) - Head of Photonics Technologies Unit

- Responsible for R&D and Manufacturing of
  - Photonic technologies and components
  - Optoelectronic Components
  - Optical Systems for Chemical-Bio sensors
- Technical Head in R&D projects on Microwave & Digital Photonics in EDA, FP6-FP7 and National frameworks
- Technical Expert in R&D projects on Optical Chemical Bio sensing in EDA, FP6-FP7 and National frameworks
- Documentation and Quality Management on Space Qualification for 0.25 um GaAs pHEMT Process
- Responsible for Manufacturing of thin film microelectronics circuits for Radar products
- Negotiation & Fund raising for new R&D Project
- Identification of strategic roadmaps jointly with CTO & LoBs
- Establishing National and international cooperation with Academic Centres and Companies on R&D

europass

2000- 2010 — Alenia Marconi Systems / SELEX Sistemi Integrati - Project Leader

- Responsible for development of Technological Processes for Thin Film and Optics
- Project Leader of National and International Projects on Optics and Microelectronics
- Preparation and Submission of New Project Proposals for Project Funding and Bid for external customers.

EDUCATION AND TRAINING

2010 — PhD in "Microelectronics & Telecommunications"
Un. of Rome Tor Vergata" (Faculty of Engineering)

2011 — Project Management Course (PMP)

2000 — Physics Degree, Magna cum Laude
University of Rome "La Sapienza".

Honours and Awards

- Prize Paper Award of the IEEE Antennas and Propag. Society for the paper "Increasing PhasedArrays Resilience via Photonic Sensor Network Feedback".
- Finmeccanica Innovation Award: "S-Router: Scalable Architecture For Reconfigurable Wide-Band Antenna Front-End" (also won (2009 Company Innovation prize).
- Alenia Marconi Systems Innovation Award: "Fibre Optics Transponder for Radar Antenna Calibration".

Patents

- US 20120211463 "*Process for realization of polymeric materials with second order nonlinear electro-optical properties and electro-optical devices made with said material*"
- IT-TO2012A000993 "*Multifinger cold cathode electron emitting device*"
- IT-TO2012A001036 "*Novel Optical Single-Sideband Modulator*"
- US8860608B2 "*Photonic Assisted Digital Radar System*"
- EP2183643 "*Low Switching Voltage, Fast Time Response Digital Optical Switch*"
- US2011182543A1 "*Electrically Driven Optical Frequency Shifter*"

Roma, 03/10/2022

Firma
Massimiliano DISPENZA
(firma autografa omessa ai sensi dell'art. 3 del D.lgs. n. 39/1993)