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Francesco Petroni

Personal information

Marital status: Married with children

Date of birth: 10/03/1963

Place of birth: Livorno, ITALY

Education and training

Bachelor of Science degree in Electronic Engineering

Name and type of organization providing education and training:

University of Pisa - Electronic Engineering

Scientific Diploma

Name and type of organization providing education and training:

Scientific High School, Livorno

Training courses

- Advertising: design, planning and evaluation of results - II Sole 24 ORE - July 2006
- Management control: budget strategic analysis of the results - II Sole 24 ORE - May 2006
- Monitoring and motivation of agents mono and multi-firm - II Sole 24 ORE - March 2006
- The marketing mix - II Sole 24 ORE - March 2006
- Inspector and operator for Conformal Coating and Staking - NASA JPL, August 2001

- ECOS Training Course - European Space Agency - September 2001
- Financing Innovative Projects - European Space Agency - September 2001
- Writing a Proposal for an ESA ITT - European Space Agency - September 2001
- Quality assurance - European Space Agency - May 2000
- Materials for space - European Space Agency - May 2000
- Qualified inspector for high-reliability soldering - European Space Agency
December 1999

Work experience

2022 – now

Chief Executive Officer, I-Conomy srl, Livorno

2021-now

Avionics responsible, Aerospazio Tecnologie srl, Collesalvetti (LI)

2010 - 2020

Innovation and Technologies Manager, SITAEL SPA, Pisa

Director of SITAEL Innovation and Technology Space activities

1999 - 2010

General Manager, CAEN Aerospace, Viareggio (LU)

CAEN Aerospace Partner, Founder and General Manager

1996 - 1999

General Director, CAEN Engineering, Viareggio (LU)

Director of CAEN Engineering Space division

Project Manager

European project management (European Space Agency, NASA, Italian Space Agency, Italian Institute of Nuclear Physics)

Research and Technology projects editing

Tender preparation in response to International Competitions

Preparation of professional training projects

Activities Coordination and Management

1992 - 1996

R&D Designer, CAEN S.p.A., Viareggio (LU)

Electronic boards design in CAMAC and VME standard

High frequency multichannel ADC board design for space experiment WIZARD Fast peak detector board design

Fast comparator board design

High voltage, radio-frequency board design for mass spectrometry

Time-charge-time converter board design for AMS experiment (Space Shuttle Discovery)

STS-91 Mission)

1990 - 1992

Officer, Italian Navy, Livorno

**Professional
appointments**

Liaison officer between the Navy and local industries

President of "Toscana Spazio", association of Aerospace Companies, Universities and Research centers located in Tuscany

Member of the Technical Committee in the Italian Aerospace Technological Cluster (CTNA)

Member of the Board of Stakeholders in the European project INTERREG

STEPHANIE (Space TEchnology with Photonics for market and societal challenges)

Member of Technical and Scientific Committee of "Polo Toscano di Optoelettronica e Spazio"

ESA Focal Point of Contact for "Power Management and Distribution" sector

Scientific referent for the Tuscany region funded project **SSCAM**

Scientific referent for the Tuscany region funded project **SSOA**

Project Manager for the project **CALET** HV Power Supply System – CNR/JAXA

Project Manager for the project **AMS-01** LV and HV Power Supply System (Space Shuttle Discovery Mission STS-91)

Project Manager for the project **AMS-02** LV and HV Power Supply System (International Space Station ISS)

Project Manager for the project **SAMPIF** – ASI

Project Controller for the project **GAIA** PDHU PSB – SYDERAL/Astrium/ESA

Project Controller for the project **CPPS** – ESA

Project Manager for the project **Microscope** FEEP Power Supply System – ESA

Project Manager for the project **INTEGRAL**– 6KV Power Supply System –ESA

Project Manager for the project **PAMELA** – LV and HV Power Supply System (Satellite Resurs-Artika 4)

Project Manager for the project **S9097/8**– Miniaturized HV Elevator 3KV, 100uA, ITAR free for space applications

Project Manager for the project **S9099**– Miniaturized HV Elevator 1,25KV, 500uA, for space applications

Project Manager for the project – VLSI RAD-HARD CAN controller chip

Project Manager for the project – VLSI RAD-HARD LATCH-UP protection chip

Project Manager for the project – Evaluation of COTS components for space applications

Publications

"Simulating satellite quantum key distribution links: analytical model and software tool", *Frontiers in Optics*, 2021

"Retrieval of solar-induced fluorescence spectral shape of oil slicks from the infilling of solar Fraunhofer lines", *SPIE - The International Society for Optical Engineering* · October 2013

"Central Payload Power Supply for Highly Integrated Payload Suites on Future Small Satellites Missions", *7thESPC*, May 2005.

"The AMS Brick: an HV Power Supply for the Space Experiment AMS-02", *IEEE Conference*, October 2004.

"MINIATURIZED, ITAR-FREE, HIGH VOLTAGE DC/DC CONVERTER FOR SPACE APPLICATIONS", *ESPC-2008*, August 2008.

Astronautics (IAA) Conference, 2015



