

LAURA PROSERPIO English CV**PERSONAL INFORMATIONS and CONTACTS**

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Nationality:	Italian
Date, place of birth:	26/02/1980, Bellano (LC), Italy

WORK EXPERIENCE

<i>Jan. 2024 – Currently</i>	INAF – Astronomical Observatory of Brera - Activities of Project Engineering Management, System Engineering and Quality control for the development of Cherenkov mirrors for CTAO: - Thermal forming technique - Cold shaping technique - Monitoring activities and contacts with industrial partners, with particular regards to QA/PA activities and organization of progress and milestone reviews: - MIFC (Manufacturing Inspection Flow Chart) - MMPPL (Materials and Parts, Process List) checks for components tracing - NCR (Non-conformance report) - Support for AIT/AIV activities - Point of contact for industrial contracts for mirrors, actuators, AMC Box - Mechanical and electrical documentation checks - Technical and quality documents writing and management
<i>Jan. 2019 – Dec. 2023</i>	Leonardo S.p.A. (MI) Engineer of the space robotic and space PVA (Photovoltaic Array) team. Main activities and projects: PEM for EGRESS (robotic arm on a lander for the deployment of a rover on Mars): - SRR DP (System Requirement Review Data Package) preparation, mainly DDVP (Design Development Verification Plan), System specifications, compliance matrices, product and specification tree; - Collaboration in preliminary design and documentation; - System requirements flow-down and definition in close co-engineering with the customer (TAS-I); - Requirements management and traceability in doors; - Weekly progress meeting with customer. System Engineer in PROSPECT team (lunar drill): - CDR and MRR DP (Critical Design Review, Manufacturing Readiness Review) preparation; - VCD (Verification Control Document) update to follow the project development (close collaboration with mechanical, engineering, quality, and documents configuration departments); - Writing of product integration procedures (both for EM, EQM, and FM models, at system and unit level); - Writing of product test procedures and reports (both for EM, EQM, and FM models, at system and unit level); - Cooperation to PROSEED Drill element EM (Engineering Model) integration and test activities; - Review of sub-contractor CDR DP (mainly for Imaging System, ProSPA science unit, and CFRP structure of the drill) with RID (Review Item Discrepancy) preparation and discussion; - Writing of technical volume for NASA CLPS offer, mainly DDVP.

	• PEM for JASON (Sentinel 6), EUCLID, COSMO SG PVA, Support engineer for ExoMars, Sentinel 3, MPCV, MTG PVA: - PVA product design activities and reporting; - PVA coupon qualification test campaign; - Close collaboration with Quality department for Product Assurance activities: including production drawing and EHR (Equipment History Record) checks; MIFC (Manufacturing Inspection Flow Chart) redaction and control; MMPPL (Materials and Parts, Process List) and Part Lists checks for components tracing; - Support to PVA AIT (Assembly Integration Test) in clean rooms; - NCR (Non Conformance Report) writing, and assessment; collaboration in root cause analyses; - Test procedure and test report writing; - Thermo-vacuum tests at external facility (mainly IABG in Germany); - Procedure writing for specific processes in PVA production; - Cooperation to prepare presentations for meeting with customer.
Feb. 2017 – Dec. 2018	Engineering consultant for ALTRAN ITALIA, in Leonardo S.p.A. (MI) Electrical engineer and project leader for the space division. Design, qualification, AIV activities for PVA -Photovoltaic array- for space missions.
Research career	
Apr. 2013 - Jan. 2017	Researcher at MPE , Max Planck Institute für extraterrestr. Physik, Germany Responsible of the slumping laboratory and metrological activities. X-ray optics design, simulation and manufacturing. Bachelor and PhD students tutoring.
Oct. 2011- Mar. 2013	Post-doc at INAF-OAB , Brera Astronomical Observatory, Italy Working on glass slumping, optics metrology, direct polishing, Ion Beam Figuring. Patent TO2013A00068 on slumping method deposited <i>Camera di Commercio, Torino</i>
Teaching experience	
Sept. 2007 - Now	Collaborator of Planetarium in Lecco for outreach activities
04-08 May 2015	Visiting professor at Aschaffenburg University for the International Project Week Project: 'Elaboration of a technical and commercial offer for a scientific space mission'.
2 Jul. 2014	Visiting professor during ISU-SSP14* in Montreal Contribution on X-ray astronomy and missions during Physical department activities
Jun.-Aug. 2008	Teaching Assistance during ISU-SSP08* in Barcelona Lectures and experimental activities of the Space Physical Science Department.

EDUCATION AND TRAINING

Oct. 2007-Oct.2011	PhD in astronomy and astrophysics at Insubria University & INAF-OAB Dissertation on the 'Development of the glass slumping technology for the production of the X-ray mirrors aboard the International X-ray Observatory optical module'.
Jun.-Aug. 2007	Summer Master ISU-SSP07* in Beijing , ESA fellowship Final report on 'Technology resources for earthquake monitoring and response'.
Sept. 2000-Jul. 2006	Master degree in aerospace engineering at Politecnico di Milano Thesis on the 'Feasibility study of nano and micro satellite busses'.
Sept. 1995-Jun. 2000	'Maturità scientifica' Highschool : Liceo Scientifico P.L. Nervi, Morbegno

PERSONAL SKILLS AND COMPETENCES

Languages:	Italian: mother tongue, English: good, German: basic
Social:	Team working proficiency in multicultural environments. Good communication skills and ability to teach and speak in public.
Organizational:	Managing group interactions, self-organized and goal oriented. Milestone definition and project technical development planning. Experience in the organization of workshops and educational activities.
Technical:	Word, Excel, Powerpoint, Project: good

SAP: intermediate (for documents configuration and production baseline)

Doors: beginner use (for requirements management)

Matlab and simulink, solidworks, STK, IDL: basic

Specific software for optics metrology: basic

Familiar with **ECSS standard**

Date: ____ May 06, 2025 _____

Signature: _____ *Laura Proserpio*

*ISU-SSP is the Space Study Program of the International Space University

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