CURRICULUM VITAE

Informazioni personali	
Cognome Nome	Illiano Simone
Qualifica	TECNOLOGO
Amministrazione	Agenzia Spaziale Italiana
Incarico attuale	Tecnologo
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Titoli di studio e professionali ed esperienze lavorative	
Titolo di studio	Laurea Magistrale in INGEGNERIA SPAZIALE 110/110 CUM LAUDE, Università La Sapienza, Roma
Altri titoli di studio e professionali	-
Esperienze professionali *(incarichi ricoperti)*	**Technologist (ASI): 2021 - current** Management and participation in ASI for the preparation of offer requests for technical proposals towards space industries in several programs of Space Transportation and In-Orbit Servicing fields. Participation in the evaluation of industries technical offers and verification of the adequacy of the price requested. Management of activities of phase A and progress meetings in the frame of Artemis program with NASA. **VEGA-E Launcher System Engineer (AVIO): 2017 - 2021**

VEGA-E System engineer manager
(from phase A of VEGA-E program, including the successfull accomplishment of LS PRR and the successfull negotiation with ESA for the phases B and early C: 118.8 M€):
- Technical focal point for the VEGA-E industrial proposal: technical offer and WBS preparation, including all the WPDs internal coordination/harmonization and the final negotiation with ESA.
- Person in charge for the management of all the engineering activities concurring to the definition and justification of the launch vehicle architecture design; definition and justification of the system requirements, funtional tree, product tree and DDQ of the new cryogenic launcher; coordination and system synthesis among all the disciplines analyses; definition of the planning and its continuous supervision; focal point for the preparation and management of the VEGA-E technical progress meetings with the customer (ESA).
- System focal point and technical reviewer to the sub-systems progress meetings and reviews (mainly on cryogenic propulsion module and M10 engine).
VEGA-C System engineer:

- Responsible of the Phase Analysis Review of VEGA-C launcher (GQR step 1) and Master of ceremony of such review which was positively concluded.
- System engineering support to several activities concurring to the GQR loop (VEGA-C measurement plan, telemetry formats check, mission analysis support, etc.).

VEGA Launcher System Engineer (ELV): 2013 - 2021

Launcher transient phases technical responsible:
- VEGA-C launcher:
Technical responsible for the design of VEGA-C transient phases (lift-off, first stage separation, second stage separation, third stage separation, P/Ls separation) which passed successfully the final PDR. System team's key figure involved in the activities of definition and justification of LV high level requirements.
- VEGA recurring flights (VV02 to VV12):
Mission analysis specialist for satellites and stages separation phases (prediction), customer requirements verification (Arianespace), telemetry data post-process analysis (level 0), reconstruction of the occurred flights transient phases (level 1), flight anomalies treatment and reconstruction, key figure in the system panels, partecipating also in severals working groups and supporting other teams in case of need of system assessments.
- VEGA subsystems:
Technical reviewer involved in the design and qualification reviews of payload adapters (VESPA, VESPA+, PLA-1194), multiple payloads dispensers (SSMS), separation systems (severals).
Flight mechanics team's analyst:

- Mission analysis, launcher stages separation, satellites orbital release, trajectory optimization, long term orbital propagation & collision

	avoidance, re-entry and casualty risk studies, mass & MCI budgets. New tools designer & developer: - Design, development & validation of 6-DoF tool (Fortran 90) to simulate the dynamics of complex multibody orbital systems: CASTORO (Collision And Separation Tool for Orbital Released Objects) - Nominal & Monte Carlo. - Design, development & validation of a tool (MATLAB) to compute MCI of complex assemblies: used for MPL missions - Nominal & Monte Carlo. - Design, development and validation of a tool (MATLAB) to predict the VEGA upper stage tumbling motion during passivation phase. - Design, development & validation of a tool (MATLAB) used to post-process the VEGA flights telemetry data (all flight phases).
Capacità linguistiche	Inglese: conoscenza professionale Francese: conoscenza di base
Capacità nell'uso delle tecnologie	- Pacchetto office completo - Matlab - Simulink - Fortran 90 - Octave
Altro *(partecipazione a convegni e seminari, pubblicazioni, collaborazioni a riviste, ecc., ed ogni altra informazione che si ritiene di dover pubblicare)*	

Autorizzo il trattamento dei miei dati personali ai sensi del Regolamento (UE) 2016/679 e del D. Lgs. 196/2003 come modificato ed integrato dal D. Lgs. 101/2018

(aggiornato al 29/11/2022)