CURRICULUM VITAE

Informazioni personali	
Cognome Nome	Fedele Alberto
Qualifica	TECNOLOGO
Amministrazione	Agenzia Spaziale Italiana
Incarico attuale	Capo Ufficio Micro e Nano Satelliti Scientifici
Numero Telefonico Ufficio	
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Titoli di studio e professionali ed esperienze lavorative	
Titolo di studio	Dottorato di Ricerca in Ingegneria Industriale (Indirizzo Aerospaziale)
Altri titoli di studio e professionali	Laurea specialistica in Ingegneria Astronautica Laurea triennale in Ingegneria Aerospaziale
Esperienze professionali *(incarichi ricoperti)*	2021 - Presente: Agenzia Spaziale Italiana (Roma, Italia) Program Manager 2020 – 2021 UF/NASA Postdoctoral Research Associate (Gainesville, Florida, USA) Project Manager 2011 - 2020 CIRA - Centro Italiano RIcerche Aerospaziali (Capua, Italia) Project Manager e System Engineer 2010 GMV AEROSPACE AND DEFENCE S.A.U. (Madrid, Spagna) Mission Analysis Engineer

Capacità linguistiche	Inglese Spagnolo Portoghese Francese
Capacità nell'uso delle tecnologie	
Altro *(partecipazione a convegni e seminari, pubblicazioni, collaborazioni a riviste, ecc., ed ogni altra informazione che si ritiene di dover pubblicare)*	Pubblicazioni a Rivista: J1) C. Riano-Rios, A. Fedele, R. Bevilacqua, "Roto-Translational Control of Spacecraft in Low Earth Orbit Using Environmental Forces and Torques". Applied Sciences Journal Vol. 11, no. 460, p. 4606. DOI https://doi.org/10.3390/app11104606 J2) A. Fedele, S. Omar, S. Cantoni, R. Savino, R. Bevilacqua, "Precise re-entry and landing of propellantless spacecraft". Advances in Space Research Volume 68, Issue 11, 1 December 2021, Pages 4336-4358. DOI https://doi.org/10.1016/j.asr.2021.09.029 J3) A. Brunello, A. Valmorbida, E. Lorenzini, A. Fedele, M. De Stefano Fumo, R. Votta, "Tethered Satellite controlled re-entry dynamics from the International Space Station". IEEE Journal on Miniaturization for Air and Space Systems (2020), DOI: 10.1109/JMASS.2020.3046182 J4) A. Brunello, A. Valmorbida, E. Lorenzini, S. Cantoni, M. De Stefano Fumo, A. Fedele, R. Gardi, R. Votta, "Deorbiting Small Satellites from the ISS using a Tethered System". CEAS Space Journal (2020), DOI: 10.1007/s12567-020-00337-1 J5) A. Fedele, S. Carannante, M. Grassi, R. Savino, "Aerodynamic Control System for a Deployable Re□Entry Capsule". Acta Astronautica (2020), https://doi.org/10.1016/j.actaastro.2020.05.049 J6) A. Fedele, R. Gardi and G. Pezzella, "Aerothermodynamics and Thermal design for On-ground and In□flight Testing of a Deployable Heat Shield Capsule". CEAS Space Journal volume 12, pages 411–428 (2020), DOI: 10.1007/s12567- 020-00312-w J7) A. Fedele, S. Mungiguerra, "Aerodynamics and flight mechanics activities for a suborbital flight test of a deployable heat shield capsule" Acta Astronautica volume 151 (2018) 324–333.

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"The SPACE RIDER Programme: End User's Needs and Payload Applications Survey as Driver for
Mission and System Definition". Acta Astronautica volume 152 (2018). https://doi.org/10.1016/j.actaastro.2018.08.042.
J9) A. Fedele, N. Genito, L. Garbarino, G. Di Capua and V. Baraniello, "A Pilot-in-the-loop Facility for
Avionic Concept Development". Journal of Automation and Control Engineering, Vol. 4, No. 4, August
2015, ISSN: 2301-3702.

Pubblicazioni a Conferenza:
C1) G. Leccese, S. Natalucci, A. Fedele, V. Cottini, Overview and Roadmap of Italian Space Agency
Activities in the Micro- and Nano-Satellite Domain, In Proc. IAC 2022, Paris, France, 2022, 18 – 22
September.
C2) V. Lamarca, C. Angelone, V. Mancini, M. L. Tampellini, D. Giudici, P. Guccione, F. Gerace, P. Gabellini, S.
Falzini, A. Monti Guarnieri, A. Fedele, F. Tataranni, A. Montuori, S. Natalucci, SATURN – A Synthetic
Aperture Radar CubeSats Swarm Mission for Earth Observation, IAC 2022, Paris, France, 2022, 18 –
22 September.
C3) A. Renga, A. Gigantino, M. D. Graziano, A. Moccia, A. Fedele, S. Natalucci, Beamforming and Multi□Platform Image Synthesis for RODiO Distributed SAR, IAC 2022, Paris, France, 2022, 18 – 22
September.
C4) L. Bonventre, T. Scalia, M. L. Terranova, A. Fedele, Nuclear Batteries for Space Applications: From
1913 To the Moon and Beyond, IAC 2022, Paris, France, 2022, 18 – 22 September.
C5) F. Punzo, R. Aurigemma, P. Dell'Aversana, L. Gramiccia, M. Spagnulo, P. Vernillo, R. Gardi, A. Fedele, R.
Savino, M. Grassi, M. Albano, S. Ianelli, L. Ferracina, I. Roma, "Development and Flight Test of a
Suborbital Re-Entry Demonstrator". 72nd International Astronautical Congress, 25-29 October 2021.
Dubai, UAE.
C6) F. Punzo, R. Aurigemma, L. Gramiccia, M. Spagnulo, P. Dell'Aversana, M. Albano, S. Ianelli, I. Roma, L.
Ferracina, P. Vernillo, R. Gardi, A. Fedele, R. Savino, M. Grassi, "The Exploitation of the Irene TPS
Technology for Re-Entry Missions.". Global Space Exploration (GLEX) Conference 2021, June 14-18,
2021. S. Petersburg, Russia.
C7) D. Bonetti, I. Dietlein, A. Fedele, G. Gambacciani, G. Governale, Y. Prevereaud, "Advanced European
Re-Entry System based on Inflatable Heat Shields: Detailed Design (EFESTO Project)". In Proceedings
of the 71st International Astronautical Congress, 12-14 October 2020.

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C11) A. Fedele, S. Omar, S. Cantoni, R. Savino, R. Bevilacqua, "Precise Re-Entry and Landing of Propellantless Low Earth Orbit Spacecraft". Proceedings of the 2nd IAA Conference on Space Situational Awareness (ICSSA), Washington DC (United States), January 14-16, 2020.

C12) A. Fedele, S. Carannante, M. Grassi, R. Savino, "Aerodynamic Control System for a Deployable Re□Entry Capsule". Proceedings of the 2nd IAA Conference on Space Situational Awareness (ICSSA), Washington DC (United States), January 14-16, 2020.

C13) A. Fedele, R. Gardi, P. Vernillo, E. Trifoni, C. Purpura, A. Martucci, G. Ceglia, F. De Filippis, F. Punzo, R. Savino, P. Dell'Aversana, L. Gramiccia, L. Ferracina, "Mini Irene Project: Ground Demonstrator Plasma Wind Tunnel Testing". Proceedings of the 70th International Astronautical Congress, 21-25 October 2019, Washington DC (United States).

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Gambacciani, G. Bimbi, G. Governale, N. Viola, "European Flexible Heat Shields: Advanced TPS Design
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Gardi, M. Cardi, F. Corradino, F. Carrai, F. Carubia, A. Brunello, E. Lorenzini, D. Zuin, S. La Luna, M.
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C18) A. Zamprotta, A. Fedele, S. Mungiguerra, R. Savino, "Study on Aerodynamic Stability of a Deployable
Capsule", Proceedings of the 8th European Conference for Aeronautics and Space Sciences (EUCASS
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C19) R. Gardi, P. Vernillo, A. Fedele, R. Savino, F. Punzo, F. Gunnar, L. Ferracina, “Progress of Mini-Irene
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2019, Essen (Germany).
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Mission", Proceedings of the 8th Interplanetary CubeSat Workshop (iCubeSat 2019), 28–29 May
2019, Milan, Italy.
C21) A. Fedele, G. Guidotti, G. Rufolo, G. Malucchi, A. Denaro, F. Massobrio, S. Dussy, S. Mancuso, G.
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C22) R. Gardi, A. Fedele, G. Pezzella, P. Vernillo, R. Savino, S. Mungiguerra, P. Dell'Aversana, L. Gramiccia,
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Suborbital Flight Test". Proceedings of the XXIV Italian Association of

	Aeronautics and Astronautics International Conference, 18-22 September 2017, Palermo – Enna, Italy. C24) P. Vernillo, A. Fedele, R. Gardi, R. Savino, F. Punzo, F. Gunnar, R. Molina, "MINI-IRENE: The First European Flight Experiment of a Deployable Heat Shield". Proceedings of the 23rd ESA Symposium on European Rocket and Balloon Programmes and Related Research, 11-15 June 2017, Visby (Sweden). C25) A. Fedele, N. Genito, L. Garbarino, G. Di Capua and V. Baraniello, "A Pilot-in-the-loop Facility for Avionic Concept Development". Proceedings of the International Conference on Aerospace Engineering, June 2015, Saint Petersburg (Russia). C26) A. Fedele, D. Romagnoli and A. Vitale, "Online Parameters Estimation for Reentry Vehicle in the Hypersonic Regime". Proceedings of the 33rd Chinese Control Conference, 28-30 July 2014, Nanjing (China). C27) A. Fedele, N. Genito, A. Vitale and L. Garbarino, "Experimental aircraft system identification from flight data: Procedures and Results". Proceedings of the 4th European Air and Space Conference (CEAS), 16-19 September 2013, Linköping (Sweden). C28) J. Gill Fernandez, R. Cadenas, D. Escorial Olmos and A. Fedele, "Proving aerobraking with mars express and venus express". Proceedings of the 61th International Astronautical Congress, 27 September - 1 October 2010, Prague (Czech Republic)

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

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