

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name **VINCENZO ARRICHIELLO**
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Nationality Italy

Date of birth 25, MARCH, 1954

WORK EXPERIENCE

- Dates (from – to) 12/2018 -
- Name and address of employer Retired
- Main activities and responsibilities Contract professor (lecturer) for teaching the course: “Principles of Systems Engineering” as part of Corso di dottorato Scienze e Tecnologie per l'Ingegneria Elettrica, l'Ingegneria Navale, i Sistemi Complessi per la Mobilità, AYs 2018-2019, 2020-2021 and 2022-2023
- Dates (from – to) 01/2013 – 11/2018
- Name and address of employer Selex ES SpA (01/2013 -12/2015); Finmeccanica/LEONARDO (01/2016 - 11/2018)
 - Type of business or sector Military electronic systems (CPV 35700000-1) [Company Sector]
 - Occupation or position held Knowledge Management & Selex Academy; Innovation Unit; CTO (Selex ES / LEONARDO)

• Main activities and responsibilities	<ul style="list-style-type: none"> - Reviewer of submission to Polaris Innovation Journal. - Co-organizer of Lunchtime Seminars (company knowledge sharing events) - Author of sections of "Technology Trends Digest" (Polaris Innovation Journal Paperback) 1st, 2nd and 3rd editions (Advanced Human to Machine Interface, Artificial Intelligence, Driverless Cars, Digital Twin). - University Master Lecturer: <ul style="list-style-type: none"> - Master in Homeland Security - Università Campus Bio-Medico di Roma: "Principi di Ingegneria dei Sistemi" course (five editions 2012_2013 - 2016_2017) - Master in Systems Engineering - Università degli Studi di Roma "Tor Vergata": "Fondamenti di Systems Engineering" course and lessons for the "System Requirements" course (two editions 2013_2014, 2014_2015) - Master in Systems Engineering for Maritime Technologies FORTEMARE - Università degli Studi di Genova/Distretto Ligure delle Tecnologie Marine: "Fondamenti di Systems Engineering" course and lessons for the "Life Cycle Design" e "Decisioni, rischi ed incertezze" courses (Two editions 2013_2015, 2014_2016) - "Progetto di Formazione di professionisti per la ricerca e per lo sviluppo di sistemi di supporto alle decisioni per la gestione delle emergenze" – Selex SI / Politecnico di Bari: 'Fondamenti di Systems Engineering' course
• Dates (from – to)	10/2009 – 12/2012
• Name and address of employer	Selex ES (after January 1st, 2013, formerly SELEX Sistemi Integrati SpA)
• Type of business or sector	Military electronic systems (CPV 35700000-1)
• Occupation or position held	SELEX Sistemi Integrati Academy, Head
• Main activities and responsibilities	<ul style="list-style-type: none"> - Design and development of the Academy (overall organization, curriculum and teaching programs) - Teaching of Academy Systems Engineering Courses - University Master Lecturer: <ul style="list-style-type: none"> - Master in Homeland Security - Università Campus Bio-Medico di Roma: "Principi di Ingegneria dei Sistemi" course (four editions 2008_2009 - 2011_2012) - Master in Systems Engineering - Università degli Studi di Roma "Tor Vergata": "Fondamenti di Systems Engineering" course and lessons for the "System Requirements" course (one edition 2012_2013)
• Dates (from – to)	02/2006- 09/2009
• Name and address of employer	SELEX Sistemi Integrati SpA
• Type of business or sector	Military electronic systems (CPV 35700000-1)
• Occupation or position held	Systems Architecting Methods Unit, Head
• Main activities and responsibilities	<ul style="list-style-type: none"> - Analysis of the State of the Art, and development of Systems Architecting Methods and processes (reference Systems Architecting process, Originating Concept: an approach for business/mission analysis)
• Dates (from – to)	01/2002-01/2006
• Name and address of employer	N.A.
• Type of business or sector	Advisory and consultative engineering services (CPV 71318000-0) Research and development services and related consultancy services (CPV 73000000-2)
• Occupation or position held	Self-employed (freelance consultant)

• Main activities and responsibilities	<ul style="list-style-type: none"> - “Braccio di Ferro” haptic workstation for neuromotor rehabilitation (design and development) [DIST, Genova University] - Feasibility studies addressing technical issues of packaging systems design [WRAPMATIC SpA, IMA SpA] - Systems Engineering technical assistance for the development of the requirements for Navy warship [Orizzonte Sistemi Navali] - Analysis of the wave-induced motion of a data transmission buoy (existing), and design of corrective actions [SIELCO]
• Dates (from – to)	12/1997-11/2000
• Name and address of employer	INNOTECH Srl (Employee-owned)
• Type of business or sector	Surveying, hydrographic, oceanographic and hydrological instruments and appliances (CPV 38290000-4) - Measuring instruments (CPV 38300000-8)
• Occupation or position held	President (co-owner)
• Main activities and responsibilities	<ul style="list-style-type: none"> - CLD (Coastal Lagrangian Drifter) system, a drifting buoys system specially designed for coastal use (Design, development, production, marketing, sale and customer support) - AtleTES Climb, a training evaluation system for free climbers (Design, development and experimentation)
• Dates (from – to)	12/1995- 12/2002
• Name and address of employer	EUREKA Engineering Srl
• Type of business or sector	Advisory and consultative engineering services (CPV 71318000-0) Research and development services and related consultancy services (CPV 73000000-2)
• Occupation or position held	President (owner)
• Main activities and responsibilities	<ul style="list-style-type: none"> - Water-jet propulsion system for robotic underwater vehicles (design and development) [DIEE, Cagliari University] - High dexterity underwater manipulator prototype for the AMADEUS II Project (EC, MAST Programme) (design and development) [subcontractor of DIST, Genova University] - Fiber optic proximity sensor (technology development and design) - Consultancy for the design of an automated system for clothes wrapping - Gantry-crane model for motion control studies (design and development) [DIEE, Cagliari University] - Servo-actuated tilting platform for measurement of ankle stiffness (design and development) [Centro di Bioingegneria Ospedale “La Colletta”, DIST, Genova University] - Consultancies on technology transfer to SMEs, for a local Development Agency, on various topics (Shape Memory Alloys, Offshore Aquaculture, etc.)
• Dates (from – to)	10/1990-11/1995
• Name and address of employer	INSIS Srl
• Type of business or sector	Advisory and consultative engineering services (CPV 71318000-0) Research and development services and related consultancy services (CPV 73000000-2)
• Occupation or position held	Vice-President for R&D

- Main activities and responsibilities
 - Robotic bipedal locomotion system prototype (design and development) [DIST, Genova University]
 - Static anemometer for armoured vehicles (support to design and development) [ELSEL]
 - Image capturing system for a postal automation system (feasibility study) [Elsag]
 - Fiber optic vibration sensor for electric machinery (industrialization of prototype) [Ansaldo]

- Dates (from – to) 09/1989-09/1990
- Name and address of employer WELSE Srl
 - Type of business or sector Submarines [design] (CPV 35512000-6)
 - Occupation or position held Subsystems (not-ASW) Systems Engineer
 - Main activities and responsibilities Preliminary design of the Command and Control system for the SA90 class and 300T class submarines

- Dates (from – to) 07/1988-08/1989
- Name and address of employer OTO MELARA SpA
 - Type of business or sector Weapons, ammunition and associated parts (CPV 35300000-7)
 - Occupation or position held Lead systems engineer
 - Main activities and responsibilities Target alert and designation system for anti-aircraft tank

- Dates (from – to) 07/1985-06/1988
- Name and address of employer OTO MELARA SpA
 - Type of business or sector Weapons, ammunition and associated parts (CPV 35300000-7)
 - Occupation or position held Member of the system design team
 - Main activities and responsibilities Anti-aircraft tank development

- Dates (from – to) 01/1985-06/1985
- Name and address of employer SIELCO srl
 - Type of business or sector Repair and maintenance services of security and defence materials (CPV 50600000-1)
 - Occupation or position held Employee
 - Main activities and responsibilities Technical assistance to installation of the sonar system onboard an Italian Navy warship

EDUCATION AND TRAINING

- Dates (from – to) 1972 – 1984
- Name and type of organisation providing education and training Universita' degli studi di Genova
- Principal subjects/occupational skills covered Electronic Engineering

- Title of qualification awarded Laurea in Ingegneria Elettronica. Abilitazione all'esercizio della professione di Ingegnere
- Level in national classification
(if appropriate) Laurea Vecchio Ordinamento (quinquennale)
- Dates (from – to) 1967 - 1972
- Name and type of organisation
providing education and training Liceo Ginnasio L.Costa, La Spezia
- Principal subjects/occupational
skills covered Curriculum Liceo Classico
- Title of qualification awarded Diploma di maturita' classica
- Level in national classification
(if appropriate) Diploma

PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

MOTHER TONGUE ITALIAN

OTHER LANGUAGES

ENGLISH

- Reading skills good
- Writing skills good
- Verbal skills good

FRENCH

- Reading skills basic
- Writing skills basic
- Verbal skills basic

SOCIAL SKILLS AND COMPETENCES

*Living and working with other people,
in multicultural environments, in
positions where communication is
important and situations where
teamwork is essential (for example
culture and sports), etc.*

Good experience and results in team-working and team-leading.
Extensive experience of customer relations.
Active participation in INCOSE (International Council on Systems Engineering)
international Working Groups and in the International Symposium 2012 Project Team

<p>ORGANISATIONAL SKILLS AND COMPETENCES</p> <p><i>Coordination and administration of people, projects and budgets; at work, in voluntary work (for example culture and sports) and at home, etc.</i></p>	<p>Setting up and running both SMEs and corporate units. First President (2013 - 2015) of Associazione Italiana di Systems Engineering (Italian Chapter of INCOSE)</p>
<p>TECHNICAL SKILLS AND COMPETENCES</p> <p><i>With computers, specific kinds of equipment, machinery, etc.</i></p>	<p>Systems Engineering, Mechatronics, Electro-optics, Robotics. Tools: Wordprocessors, Spreadsheets, Mathematic CAD, 2D CAD.</p>
<p>ARTISTIC SKILLS AND COMPETENCES</p> <p><i>Music, writing, design, etc.</i></p>	<p>Photography, Writing (essays)</p>
<p>OTHER SKILLS AND COMPETENCES</p> <p><i>Competences not mentioned above.</i></p>	<p>Hiking, Kayaking (sea and whitewater), Canyoning, Scuba Diving, Sail Racing</p>
<p>DRIVING LICENCE(S)</p>	<p>Car driver licence Boat driver licence</p>

ADDITIONAL INFORMATION

PUBLICATIONS

- Robot mobili su gambe per la locomozione in ambienti non strutturati'. Marini, A. Bicchi, D. Prattichizzo, P. Petreschi, G. Bartolini, V. Arrichiello, S. Aliboni. Atti del Convegno Nazionale Progetto Finalizzato Robotica, Italia, 1993.
- Modeling And Control Of New Elements Of The AMADEUS Gripper Designed For Fast Manipulative Tasks. V. Arrichiello, G. Bartolini, M. Coccoli. Proceedings of the OCEANS'98, IEEE/OES Conference
- Experimentation of an innovative lagrangian coastal drifter. A.Ribotti, G.De Falco, V.Arrichiello. Proceedings of the Second International Conference on EUROGOOS
- Measurements of coastal circulation by using an innovative coastal drifter. A.Ribotti, G.De Falco, V.Arrichiello, L.Amici. Proceedings of Oceanology International 2000
- Large Systems School: Curriculum Development. Vincenzo Arrichiello. POLARIS Innovation Journal 08 - 2011
- The Originating Concept: a Foundation for System of Systems Architecting Decision Making. Vincenzo Arrichiello. Proc. of the 2012 7th International Conference on System of Systems Engineering (SoSE 2012). Genoa, Italy. 2012
- Is systems engineering a stifler or an enabler of innovation? A contribute to the ongoing debate. Arrichiello, V. Rossi, M. Terzi, S. Engineering, Technology and Innovation (ICE). 2014. IEEE International ICE Conference Proceedings
- Innovation: a Quick Look at a Protean Topic. V. Arrichiello. POLARIS Innovation Journal 20 - 2014
- Introduction to systems engineering. In INCOSE Italia Chapter Conference on Systems Engineering (CIISE 2014), Arrichiello, V., Rome, Italy (2014)
- Systems Engineer: the ultimate phronetic leader?. V. Arrichiello. Proceedings of the 26th Annual INCOSE International Symposium. 2016
- Attitude and position tracking of autonomous 6 d.o.f. vehicles with mono-directional actuators. Arrichiello, V., Bartolini, G., Pisano, A., Punta, E., Usai, E., & Zolezzi, T. 2016. 14th International Workshop on Variable Structure Systems.
- Nuovi orizzonti del Model Based Systems Engineering, Arrichiello, V., Viewpoints (AISE newsletter), N.3, 2017
- Systems engineering and digital twin: a vision for the future of cruise ships design, production and operations, Arrichiello, V. & Gualeni, P. Int J Interact Des Manuf (2019)
- Il Caso Boeing 737 Max - Un tragico esempio di cattiva ingegneria, Arrichiello, V., Viewpoints (AISE newsletter), N.7, 2019
- Il Navipendolo dell'ing. Gioacchino Russo - Un contributo italiano alla architettura navale di grande risonanza internazionale, Paola Gualeni, Vincenzo Arrichiello, Rivista Marittima, Marzo 2023

PATENTS:

- (WO 1995/020166) PCT/EP1995/000171 "Device for measuring the velocity of a flow of fluid"
- (WO 1997/017589) PCT/EP1996/004717 "Method for measurement of distance of optoelectronic type and devices for the implementation of said method"
- (WO 1997/017589) EP1102661 - US6484601: "Bellows actuation device, specially for robotic manipulator, and method to operate said device"
- IT0001305421: "Imbustatrice per abiti, o simili" (co-inventor)
- IT0001366777: "Metodo e dispositivo per il posizionamento dinamico di oggetti in moto nello spazio, in particolare immersi in un fluido " (co-inventor)

AWARDS:

- SIRI (Italian Association for robotics and automation) - Award ROBOTIDEA 2001 "DANIELE FABRIZI" for the invention "Bellows actuation device, specially for robotic manipulator, and method to operate said device"
- FINMECCANICA Innovation Award 2008 "Laboratorio Virtuale abilitante alla Progettazione Collaborativa di Sistemi" (Collaborative Systems Design Virtual Laboratory)
- LEONARDO Innovation Award 2018 "Lunch Time Seminar" (popular presentations given every fortnight by experienced colleagues, broadcast via video conference to company's sites)
- AISE HONORARY MEMBER AWARD, 30.11.2023 (Associazione Italiana di Systems Engineering - Italian Chapter of INCOSE)

ANNEXES

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