Adriano V. Autino, bio & publications

Adriano V. Autino

Adriano Vittorio Autino is CEO at Andromeda Systems Engineering Ltd, UK; and President of the Space Renaissance International. He got his diplome in Industrial Electronics in 1969, studied Computer Science at University of Turin, and begun his career in 1971, designing diagnostic and test engineering software at Honeywell Information Systems Italia. In 1984 he joined Sysdata CAP Gemini, serving as a project manager. From 1992 to 1999 Adriano was a free lance software consultant. In 2000 he created Andromeda s.r.l., dealing industrial automation and systems engineering. Since 2012 he is CEO of Andromeda Systems Engineering Ltd, UK. Since 1997, he started his philosophical reflection on the subject of human expansion over the frontiers of our world, and gave birth to the web magazine Technologies of the Frontier, publishing articles and papers, mainly on the subject of Astronautics, collaborating with many space activists world wide. In 2008 he initiated the Space Renaissance Initiative, and in 2010 the Space Renaissance International, as a non profit association.

Professional history

In 1984 Adriano Autino joined Sysdata Cap Gemini, where he served as a project leader and then project manager for industrial automation projects; main projects: Waters treatment system, with Philips Eindhoven (NL) for the Municipality of Berna (CH); Control and monitoring system for a research optical fibres production machine for Pirelli FOS (Italy); Software for control and supervision of the sperimental nuclear fusion central "TOKMAK" for Gavazzi, ENEA (Frascati - Italy); Batching system for a biscuit factory for Philips, Buehler, Nabisco-Saiwa (Alessandria - Italy); Control and supervision system for an Oil refinery marine terminal for Philips S.&.I., Snamprogetti , Adnoc RUWAIS (United Arab Emirates); Automated assembling of freezers and refrigerators system for Philips S.&.I., DKK (Niederschmiedeberg - ex D.D.R.); Weighing system for a gasoil coast deposit for Philips S.&.I., Agip-Liquipibigas (Livorno - Italy); Automated system for Tanneries of Gatovo (Minsk - Bielorussia) and Riazan (Russia) for Cogolo, Sojuznestroyimport; Automated system for Tannery of Voznesensk (Ucraina), Promotan, Sojuznestroyimport; Siderurgic Owen Control System for Philips S&I (Monza – Italy).

Since 1992 to 1999, as a freelance consultant, he participated to several projects in the aerospace and defense industries, working on system integration and system engineering, as well as software engineering. Main projects: PWT AIS Dynamic Real Time Simulator, PWT AIS (Plasma Wind Tunnel Automation and Instrumentation System) – Supervision of the Commissioning, System Integration, System Testing and Integrated Testing for LABEN / ESA - Vimodrone Milano, Italy; Tornado Aircraft Flight Simulator, reverse design from TI980 ('70 years machine) to DEC Alpha station for METEOR (Alenia – Finmeccanica) - Ronchi dei Legionari (GO); Analytical Marketing Study for Technology Transfer, Technical competences analysis and processing versus new market segments for LABEN (Alenia -Finmeccanica) - Vimodrone Milano, Italy; MMI level 2 system for metallurgical plant integration, for CEDA, SIDOR - Venezuela.

He started Andromeda s.r.l. in 2000, and there he worked on systems engineering for industrial and infrastructural automation projects such as tunnels, highways, railways, bridges, for industries such as oil & gas, energy, automotive, and textiles. Over time, he developed the PTESY (now STEPS) suite of tools for project life cycle management based on his own experience. In addition to being an expert in systems engineering and project lifecycle management, Adriano also brings to the table his extensive background in project management, system integration/test engineering, and reverse engineering. He is an author of several books on best practices in the engineering domain. He also lectures about systems engineering and project management. Adriano held classes of project management during '90s, systems engineering and space renaissance philosophies since 2000 and onward. Andromeda s.r.l. developed several projects and supplied high profile personnel:

Navy: INTERMARINE RODRIQUEZ - Sarzana, Italy - Project Life Cycle Engineering for the project of three ships for the Finnish Navy. *Aerospace*: OERLIKON CONTRAVES ITALIA - Rome, Italy, Project & Test Engineering System, for the quality management of defense systems; IACSA - FI, Italy - Development of a workshop on "Commercial Astronautics and Space Tourism", a proposal to Space and non-Space Entrepreneurs; EADS-LV - Bordeaux, France - ESA TRP Structural Design of Advanced Solar Array; THE OURS FOUNDATION - CH - Study for Orbital Infltable Rings Demonstrator; EADS-LV - Bordeaux, France - Comparative trade-off on

different rigidization processes for inflatable space structures.
Robotics and automation: SMYTH, Casale Monferrato, Italy - Automation Software for books sewing machines; SAINT-GOBAIN EMBALLAGE Vauxrot, France, GLAXO SMITH KLINE Coleford, UK - Software Maintenance on Palletizer Robotic Lines; DAIMLER/CHRYSLER - COMAU - Bremen, Sindelfingen, DE , FIAT - COMAU - Tychy, Poland - Automation Software for Robotic Welding Industrial Lines; SCHNEIDER / TECHINT - PHA LAI (Vietnam) - THERMAL POWER PLANT COAL HANDLING PLANT Supervision of the commissioning; SAINT-GOBAIN EMBALLAGE Vauxrot, France, GLAXO SMITH KLINE Coleford, UK - Software Maintenance on Palletizer Robotic Lines; S. AGATA / NEUMAG OERLIKON - Camden, South Carolina (US), Xiaoshan Hangzhou, China, Sonzhou, China - Carding Plants commissioning and startup; LANIFICIO F.LLI CERRUTI, BI, Italy - Project & Test Engineering System, for the quality management of internal software systems development.
Methodology software: GALILEO AVIONICA-NICE, Italy - Design and development of a Corporate CMMi Metrics System.
Infrastructures: STE Engineering - Rome, Italy - Preliminary conceptual design and systems design for the Integrated Safety System of the Bridge over the Strait of Messina; GEMMO IMPIANTI / STE Engineering - Rome, Italy - Preliminary conceptual design and systems design for the Integrated Safety System of the Gran Sasso Highway Tunnel, Preliminary conceptual design and systems design for the Integrated Safety System of the Gran Sasso Highway Tunnel; GEMMO IMPIANTI - Venice, Italy - Definitive project of the 33 kms highway bypass of Mestre, full automation, supervision, all the special systems; MI, Italy - Feasibility study and pre-design of four tunnels on the Ljubljana-Maribor highway, integrated automation and supervision, all the special systems; Hunghery - Feasibility study and pre-design of the Urban Subway of Budapest, automation and supervision of the electric systems; Mestre, VE, Italy - Supervision and Telecontrol Real-Time System of the Fire-Fighting plant of the Mestre West Ring; SCHNEIDER ELECTRIC / PSA / SOGI-PIZZAROTTI / ANAS BOLZANO. - NATURNO BZ, Italy - Tunnel Automation and Supervision Real Time System; MI, Italy - Feasibility Study and Pre-Design of a 30 km. highway segment, including six double barrel-vault tunnels, and all the technologic systems; GEMMO / ALSTOM. - AO, Italy - MONTE BIANCO TUNNEL - Test engineering, supervision of the field test activities; ALSTOM - MONTE BIANCO TUNNEL Training of the Tunnel Automation and Control System Operators; SITAF - TURIN-FREJUS HIGHWAY - Supervision and monitoring system enhancement engineering and supervision; Milano, Italy - Milano SubRailway Feasibility Study.
Telecommunication: PIRELLI LABS, MI, Italy - Multilaser Amplifier for optical fibre transmission. Project Quality Coordination and Management; SIT / ALCATEL - Milano, Italy - HDSL FRONT-END SYSTEM Design and development of embedded software to control the transmission on the HDSL line, on both sides (provider and user); SIT / PIRELLI SUBMARINE - Sesto S.G., Italy - SUBMARINE OPTICAL FIBRE CABLES TRANSMISSION CONTROL, DIGITAL SIGNAL PROCESSING High Power Laser Control firmware systems design and development.

Student of the space age philosophy

Since late 1980' Adriano developed a critical reflection about the growth of our civilization in a closed system. In opposition to the borning green movement he analyzed the incoming economical, cultural and environmental crisis as a growth crisis, and rejected the psychotic paradigm that sees man as a virus of Earth. Consequentially, he begun to develop his new humanistic theory, having its main guideline in the crossing of the world boundaries, first of all the space frontier. After several tentatives to found a paper magazine, in 1997 he decided to create a web magazine, called Technologies of the Frontier. During late 90's and early 2000's, several space philosophers and activists reach the editorial staff: Michael Martin Smith (UK), Marco C. Bernasconi (CH), Patrick Collins (UK/Japan), and others. The magazine publishes several excellent articles and papers, on the them of space tourism, astronautic humanism, ethics. In the same time Adriano participates to IAF congress: 1997, in Torino, 1998, in Melbourne, 2001, in Tolouse and, later, presenting several papers in the space and society symposium (see the papers list, hereafter). Technologies of the Frontier, together with SpaceFuture (the web journal managed by Patrick Collins and Peter Wainwright) hold two conventions, in 2006 "The global importance of the incoming Space Economy", at the medieval castle of Moncrivello, in Italy, and in 2008 "A new renaissance: colonizing the Moon and the Near Earth Asteroids!", in Belgirate, Lago Maggiore in Italy. During the convention the seed of the Space Renaissance was sewed, by Adriano and patrick. At the end of 2008, the Space Renaissance Initiative web site was created, and begun to call space enthusiasts world wide to join their efforts, with the goal to speak louder, and reach the public opinion. The guidelines were, from the very beginning: human expansion into space as the sole alternative to the global crisis, great value of the big number of human intelligences vs. the bureaucratic vision of "mouths to feed" (Simon vs. Malthus). In 2010 the Space Renaissance International was founded, and in 2011 it held its first congress, online. In 2012 SRI entered a more mature phase, and is now in the stage of creation of local chapters, in the US, in Italy, and other countries.

Adriano wrote several books, the two of them on the themes of astronautic humanism: "Earth is not sick: she's pregnant!", published in Italy in 2008 ("La Terra non e' malata: e' incinta!", by Arduino Sacco Editore), and "Three Theses for the Space Renaissance", co-authored by Patrick Collins and Alberto Cavallo, in 2011.

Some of the papers and books authored or coauthored by A. V. Autino:

- A, Autino - Facing the 21 st Century's Civilization Challenges by the Tools of Astronautic Humanism - published on the Journal of Space Philosophy, 2012
- A. Autino, P. Collins, A. Cavallo - Three Theses for the Space Renaissance (book, 2011)
- A. Autino - La Terra non é malata: é incinta! (book, italian language, 2008)
- A. Autino - Il Marketing Funzionale (book, italian language, 2006)
- A. Autino - Dalla Qualità alla Maturità (book, italian language, 2005)

- P. Collins, A. Autino, "What the Growth of a Space Tourism Industry could contribuite to Employment, Economic Growth, Environmental Protection, Education, Culture and World Peace", paper presented at the International Astronautic Academy Symposium on Private Human Spaceflight, May 28-30, 2008, Arcachon, Bordeaux, France.
- A. Autino - The Solar System: a living organism, 2009
- A. Autino - Founding a new renaissance - toward a Space Renaissance Academy (paper presented at the 2nd International Convention of Technologies of the Frontier – Belgirate 2008)
- A. Autino - A needed change of paradigm in the space systems project processes and methodologies, (paper presented at 56th International Astronautical Congress 2005 Fukuoka - Japan)
- A. Autino - An essential Project & Test Engineering Methodology - (paper presented at IAF 54th Congress, Bremen 29/09 - 03/10 2003)
- A. Autino - A Plan for the Mercantile Astronautics (paper presented at the International Symposium on Space Travel Bremen, Germany, April 21 - 23, 1999)
- A. Autino - Il metodo del Reiterative System Life Cycle per la Maturità dei Processi di Progettazione (Italian language)
- A. Autino - The value of human life, or: Technology as a promoter of moral evolution, 2005
- A. Autino - The Copernican Evidence - Requirements for a Space Age Philosophy" - (paper presented at the 53rd IAF Congress- Houston 2002)
- A. Autino - The fifth season - the space 'bingo' surprises: very profitable and not obvious gifts of space (paper presented at 56th International Astronautical Congress - 2005 Fukuoka - Japan)
- A. Autino - Concepts for a world space program based in the society (paper presented at 49th International Astronautical Congress, 1998/Melbourne, Australia)
- A. Autino - New credit tools and tax concepts for the opening of the space frontier (paper presented at 51th International Astronautical Congress, 2000/Rio de Janeiro, Brasil)
- A. Autino - The methodology of questionnaires to develop a world wide space education plan (paper presented at 52th International Astronautical Congress, 2001/Toulouse, France)

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