



Angelo Corsaro, PhD

Profile

Dr. Corsaro is a highly effective, result-oriented, creative, passionate and energetic technology executive. Dr. Corsaro has an amazing track record in driving innovations that result in technology leadership, increased market share and increased revenues.

Dr. Corsaro a world top expert in edge and fog computing and a well known and cited in the area of high performance and large-scale Distributed Systems, Internet of Things, Embedded Real-Time Systems. Dr. Corsaro has co-authored about ten international standards and hundreds of publications in book chapters, referred journal, conferences, workshops, and magazines.

Experience

CHIEF TECHNOLOGY OFFICER, ADLINK TECHNOLOGIES INC., FRANCE — 2016-PRESENT

Angelo Corsaro, Ph.D. is Chief Technology Officer (CTO) at ADLINK Technology Inc. where CTO he leads the Advanced Technology Office (ATO) and looks after corporate technology strategy and innovation. The ATO is responsible for technology scouting, innovation and thought leadership in both software and hardware technologies. Through his work in ADLINK, Angelo has gained the recognition as a world top expert in edge/fog computing.

Dr. Corsaro innovations and technology leadership have gained ADLINK the following press recognitions:

- › **Power 200:** World's Most Influential Data Economy Leaders in 2019
- › **Compass Intelligence Award:** Best M2M and IoT Company in 2018
- › **Data Intelligence:** Top 50 most influential executives in Edge Computing

HEAD OF THE SOFTWARE AND TECHNOLOGY BUSINESS UNIT, ADLINK TECHNOLOGIES INC., FRANCE — NOV 2019-PRESENT

ADD DESCRIPTION

LECTURER AT THE ESIEE, PARIS [2016 — PRESENT]

Founded in 1904, ESIEE Paris schools of higher education and research focused on all aspects of technological innovation and a founder member of the newly-created «Université Paris-Est».

ESIEE Paris is a member of the « Conférence des grandes écoles françaises ».

At the ESIEE I teach two courses, one on IoT and the other on Functional Programming.

CHIEF TECHNOLOGY OFFICER, PRISMTECH, ORSAY, FRANCE — 2009-2016

As PrismTech's CTO, Dr. Corsaro has led the company transformation from a middleware provider in Aerospace and Defence to a disruptive Platform as a Service (PaaS) provider in the Internet of Things (IoT). PrismTech's Vortex is the first IoT platform that supports Cloud and Fog computing architectures and provides universal applicability from exotic embedded devices, to cloud, enterprise, mobile and web applications. Vortex is today at the foundation of leading edge IoT applications such as Smart Cities, Smart Grids, Autonomous Vehicles, Smart Farming, Connected Medical Devices, and Integrated Clinical Environments.

Dr. Corsaro innovations and technology leadership have gained PrismTech a large number analysts and press recognitions, including:

- › **Gartner:** Cool Vendor 2014 Award.
- › **SandHill:** Top company positioned to play critical roles in the future of IoT.
- › **IoT Nexus:** Top player in the internet of Things.
- › **Annual Internet of things Awards:** Must-follow company

As PrismTech technology leader and visionary, Dr. Corsaro serves as the company technology evangelist, establishing strong thought leadership through regular public speaking, blogging, writing and analysts briefing. Finally Dr. Corsaro is responsible for leading strategic standardisation and strategic technology partnerships.

PRODUCT STRATEGY MANAGER, PRISMTECH, ORSAY, FRANCE — 2007-2009

Dr. Corsaro started at PrismTech as a Product Strategy Manager. His responsibilities included product strategy, competitive positioning, technology evolution, technology evangelism and strategic standardisation. As a Product Strategy Manager Dr. Corsaro crafted the Open Source the strategy that helped PrismTech transition from a niche player in the high performance communication market into a main-stream technology. This transition lead to a massive increase in the number of users, a steep expansion in target market and ~75% growth in revenues.

**SOFTWARE TECHNOLOGIES SCIENTIST / STRATEGIC AND TECHNOLOGICAL PLANNING
DIRECTORATE, SELEX-ES/FINMECCANICA, ROME, ITALY — JAN 2005— AUG 2007**

While at SELEX-ES, Dr. Corsaro supported, the director of the Strategic and Technological Planning Directorate, by investigating new computing technologies, defining company wide technology evolutions, research directions and R&D investments, and looking after strategic standardisation. Some of Dr. Corsaro's achievements are listed below:

- › Dr. Corsaro served as the Technical Manager and Chief Architect for a the FINMECCANICA research group on exotic Multi-Core Processors, such as IBM Cell Broadband Engine. The research group directed by Dr. Corsaro derived new algorithms to efficiently solve important computational problems in data processing and demonstrated 9x-40x increase in performance and 9x reduction in heat dissipation. Some of these algorithms are now published research and used in advanced data-processing applications..
- › Dr. Corsaro, was an active member and consultant of a corporate research team working on Complex Systems, and specifically with respect to the problem of disseminating, storing, and retrieving massive amounts of data. One of Dr. Corsaro's contributions was a new fully distributed internal clock synchronisation algorithm that, to date, has the lowest error bound. This algorithm, now published as an IEEE Transaction, is widely used in SELEX-ES applications that require precise internal clock synchronisation and extremely high fault-tolerance.
- › Dr. Corsaro served as the chair of the scientific committee that defined the research agenda for the FINMECCANICA Software Laboratory. As part of this role Dr. Corsaro (1) drove collaboration with Academic institutions, and (2) co-advised Ph.D. students funded by the initiative.

CHIEF ARCHITECT / R&D DEPARTMENT, SELEX-ES, ROME, ITALY — DEC 2003—DEC 2004

As a Chief Architect Dr. Corsaro was responsible for the design and development of an Enterprise Middleware Platform for next generation Safety and Mission Critical Systems, such as, Air Traffic Control Systems, Airborne Systems, Naval Combat Management Systems. In this role Dr. Corsaro technically lead and managed an international team of approximately 50 Engineers.

**JAN 2000-NOV 2003,. RESEARCH ASSISTANT, DISTRIBUTED OBJECT COMPUTING GROUP,
ELECTRICAL AND COMPUTER ENGINEERING DEPARTMENT, UNIVERSITY OF CALIFORNIA AT IRVINE
& WASHINGTON UNIVERSITY. SUPERVISOR, PROF. D. C. SCHMIDT. / PROF R. K. CYTRON**

During his PhD, Dr. Corsaro spent half of the time working as research assistant at the Washington University in St. Louis, and half of the time at the University of California at Irvine. Most of Dr. Corsaro research focused on safe and efficient real-time middleware and programming languages. Specifically, Dr. Corsaro investigated techniques, algorithms, data structures and memory models that could make a productive and easy to use environment, such as Java, an effective language for mission critical real-time applications.

As a result of this research activity, jRate, a compiler based real-time Java implementation was produced. jRate has had a deep impact on the real-time and mission critical computing research and development community, and was used as a basis for experiment and research at University Laboratories such as, MIT, York University, Purdue University, University of California at Irvine, and the Washington University, as well as prestigious industrial research laboratories such as the NASA JPL, BOEING, Lockheed Martin Advanced Technology Lab, US Navy, and Raytheon. As part of his research, Dr. Corsaro actively collaborated with BOEING and Lockheed Martin within the DARPA PCES program, and with the NASA JPL on the Mars Explorer 2009 mission. As a result, the software of the next generation Mars Explorer will be written engineered in Real-Time Java.

Committees and Chairmanships

- › Architectural Board Member, Object Management Group
- › Co-Chair Data Distribution Service SIG, Object Management Group
- › Advisor for the Norwegian Government Fog Computing Initiative
- › Advisor for the Chinese Government Edge Computing Consortium

Standardisation Work

- › OMG Enhanced View of Time
- › OMG CORBA Load Balancing Service
- › OMG DDS X-Types

- › OMG ISO C++ DDS-PSM
- › OMG Java5 DDS-PSM
- › OMG DDS Security
- › OMG DDS v1.4
- › OMG DDSI-RTPS v2.1

Education

Washington University, St. Louis, MO, U.S.A. – PhD in Computer, December 2004

Washington University, St. Louis, MO, U.S.A – M.S. in Computer, January 2001

Università degli Studi di Catania, Italy – Laurea in Computer Engineering (magna cum laude), July 1999

Languages

- › Italian (native)
- › English
- › French
- › Spanish

References

Prof. Douglas C. Schmidt

Associate Chair of the Computer Science and Engineering Department

Full Professor of Computer Science

Vanderbilt University

Visiting Scientist

Software Engineering Institute – Carnegie Mellon

W [Online Reference](#)

Prof. Roberto Baldoni

Full Professor of Computer Science

Department of Computer, Control and Management Engineering "Antonio Ruberti"

Director

Center of Cyber Intelligence and Information Security

Director

Cyber Security National Laboratory

W [Online Reference](#)

Giancarlo Grasso

Former Chief Technical Officer and Senior Vice President of Product Policy

FINMECCANICA

W [Online Reference](#)

Prof. Gordon Blair

Distinguished Professor

School of Computing and Communications

Lancaster University, UK

W [Online Reference](#)

Antonello Mangogna

Head of Avionics and Simulations Business Unit

SELEX-ES