

Giuseppe Arena
95125 Catania
Phone +39 340 9311262
+39 348 3753043
Emails: garena1967@gmail.com
giuseppe-ctn.arena@st.com
linkedin profile:
<https://www.linkedin.com/in/giuseppe-arena-7a83855/>

Resume of Giuseppe Arena

Giuseppe ARENA was born in Catania in 1967 and he received a degree in Chemistry in 1991 cum laude from Catania University (Italy).

Currently, he is the **Director of the Program Management Office (PMO)** in a Division of STMicroelectronics, a Company leader in the semiconductor sector.

In this role he **drives the new technology and products development program**, supporting market and customers needs and implementing innovative solution at industrial level.

He is also responsible for partnerships with both internal and external stakeholders (including key-customers, Universities, public institutions, etc.) ensuring the **technological product roadmaps implementation**.

Formerly he was the **Director of R&D Technology Development**, driving new products development activities, including the introduction of new materials and the evaluation, acquisition, and qualification of new multi-million dollars industrial equipment for at-state-of-the-art semiconductor devices fabrication.

He is also involved in the delivery of technical lectures on “*semiconductors technology*” to University, attending workshops and related external events, was **invited teacher** at the European School on Advanced Study on Nuclear Technologies and Ionizing Radiation (Collegio Ghislieri Pavia) as lecturer on *Plasma Etch Processes for Semiconductor Processing* for several Academic Years and starting from the 2nd semester of Academic Year 2021-2022 he will be **invited professor** in the course of “chemical-physical methodologies for nanostructure fabrication” in the MSc degree program in Chemistry at Catania University. Starting from 2022, he will be also the **ST Reference in the Steering Committee of Chemistry Degree Program at Catania University**.

He holds 10 Patents and 26 international publications.

In 27 years he gained solid competences in the industry sector with a specific background in:

- **management for innovation**
 - Driving and follow complex and structured R&D programs (i.e. involving several partners belonging to different internal and external



Giuseppe Arena
95125 Catania
Phone +39 340 9311262
+39 348 3753043
Emails: garena1967@gmail.com
giuseppe-ctn.arena@st.com
linkedin profile:
<https://www.linkedin.com/in/giuseppe-arena-7a83855/>

organizations) and following LEAN-based approach with the final purpose to develop new technological platforms and to introduce new products in the market.

- Working in a dynamic environment, he acquired the ability to anticipate changes, quickly detect business opportunities, mitigate risks, and make strategic decisions.
 - Networking activities with University and Research Center (ex. CNR, LETI, etc.) to run scientific and R&D activities of common interest and to manage funded research programs and research contracts.
- **new products development**
 - Over a period of more than 24 years, I gained key expertise in semiconductors technology development and transfer from basic research ideas to prototypes, industrialization and applications.
 - Successful on creating good working team (hiring, coaching, supporting, etc.);
 - Strong skills for Research and Development, open mind set and creativity;
 - Capable of identifying and analyzing problems, then proposing and implementing creative solutions.
 - handle multiple projects simultaneously, prioritize tasks and complete them in an accurate and timely manner and anticipate changes, quickly detect business opportunities, mitigate risks, and make strategic decisions;
- **Technical Competences**
 - Chemistry and materials science
 - Surface Chemistry;
 - Plasma Chemistry;
 - Plasma treatments of materials and characterization;
 - Polymers Science;
 - Physical and Chemical advanced analysis (XPS, RBS, SIMS, ToF-SIMS, AFM, SEM, TEM);
 - Process Reliability and failure analysis of materials and devices;
 - Semiconductor processes for microelectronic device fabrication;
 - Nanotechnology and processing;
 - Nanostructures fabrication;
 - Building block definition and design rule definition of microelectronic devices;
 - Knowledge of several chemical analytical techniques (GC-MS, IR, UV-VIS, HPLC, GPC).
 - Advanced characterization and chemical analysis.
- **From a behavioral point of view his main skills are:**

Giuseppe Arena
95125 Catania
Phone +39 340 9311262
+39 348 3753043
Emails: garena1967@gmail.com
giuseppe-ctn.arena@st.com
linkedin profile:
<https://www.linkedin.com/in/giuseppe-arena-7a83855/>

- open personality to build excellent relationship with both customers and colleagues achieving
- Discipline & Results Orientation;
- Sense of urgency & Initiative;
- Empowerment & Accountability Teamwork;
- Knowledge Sharing;
- Total Quality management approaches;
- Flexibility, Sense of urgency & Initiative;
- Problem solving approaches;
- Empowerment & Accountability;
- Customer (internal and / or external) & Service Focus;
- Analysis, Synthesis and Creativity.

He attended to a “booster development program” dedicated to high potential people, including several seminars and courses in a 2-years-personal development program organized by European House Ambrosetti.