

Bernardo Sbarro

Sex M | Nationality Italian

PERSONAL STATEMENT

What motivates me the most is working for the collectiveness.

PROFESSIONAL EXPERIENCE

Today



2019 – 2024

Euro-Mediterranean Centre on Climate Change Foundation

Management control office – Administration, Finance & Control

Lecce, Italy

- Oversight of cost control and reporting;
- Budget formulation;
- Analysis and management of discrepancies in spending commitments;
- Development of three-year procurement plans;
- Implementation and ongoing enhancement of control dashboards;
- Optimization of managerial processes across the administrative domain and throughout the Foundation.



04 / 2019 - 07/2019

Rete Ferroviaria Italiana – Gruppo Ferrovie dello Stato Italiane

Contracts' Executive Director and Data Engineer

Rome, Italy

- Designed and implemented robust control processes, ensuring comprehensive financial and legal compliance within managed contracts through a data-centric approach;
- Established key performance indicators (KPIs) and service level agreements (SLAs) for each contract, leading daily control operations to ensure the timely fulfilment of KPIs;
- Crafted precise financial reports for senior management, integrating expenditure forecasts and offering strategic managerial insights;
- Analysed and systematized business requirements of the division, orchestrating subsequent tender processes to meet these needs while ensuring full compliance with Italian and EU Procurement Codes;
- Oversaw the entire lifecycle—from design to execution—of outsourced services and software, ensuring seamless integration and quality performance;
- Managed relationships with contractors, ensuring seamless interactions and representing the company effectively throughout the procurement process;
- Defined new dataflows and integrated them with legacy architecture, promoting operational innovation in data acquisition, transmission, processing, and visualization/reporting;
- Responsible for the digitalization projects for the Division, both from a technical and managerial perspective.



02 / 2019 - 09/2019

University of Naples "Federico II"

Data Engineer - *Dipartimento di Farmacia, Scuola di Medicina e Chirurgia*

Naples, Italy

- Interacted with internal teams to define their needs in terms of data usage and its compliance with their research framework;
- Modelled specific processes and software to address the business needs;
- Automated the scientific data acquisition process through the software and ensured optimum integration with their legacy framework;
- Achieved a smooth operational data flow, marking a disrupting operational advancement.



Euro-Mediterranean Centre on Climate Change Foundation

Data Science and Learning Research

Lecce, Italy

- Contributed to the Earth System Grid Federation (ESGF) activities as a member of the Compute Working Team (ESGF-CWT), cooperating with international entities like the Lawrence Livermore National Institute (LLNL), the Deutsche Klimarechenzentrum (DKRZ), and the National Aeronautics and Space Administration (NASA);
- Designed protocols to integrate the CMCC HPC (High-Performance Computing) node into the international scientific community and managed the provision of data access to the analytics environment by integrating the ESGF Layer to the CMCC interfaces;
- Developed the Climate Scientific Data Infrastructure for the European Network for Earth System Modelling (ENES), focusing on computing and analytic aspects within the IS-ENES3 international project;
- Contributed to Scientific Data Management activities related to the Ophidia Big Data Analytics Framework and developed scientific software, notably in Python, for its integration in the aforementioned activities.

03/2018 – 09/2018

European Central Bank

Directorate Risk Management

Frankfurt Am Main, Germany

- Worked for the Financial Risk Analysis Division, contributing to driving the innovation of best practices for the Division's financial data processing automation;
- Implemented new software to reduce processing times and operational risks of the Division's daily activities;
- Designed, implemented, and automated several financial data acquisition processes, retrieving data from the ECB Statistical Datawarehouse (SDW) and the Division Database RAR;
- Provided support for improving daily operating workflows;
- Offered advice on key aspects to consider when outsourcing the development of complex software and dealing with external contractors;
- Supported colleagues by introducing them to new software (e.g., HP ALM, JIRA) to enhance their operational productivity.



2013 – 2016

Salento Racing Team & STMicroelectronics

Head of ICT Division

Lecce, Italia



- Developed an electronic control system for a Formula SAE Racing car, including natural features like automatic gear shifting and power supply management, along with innovative features such as innovative data telemetry;
- Designed the IT architecture for data production and management;
- Managed the budget of the Division and its relationships with sponsors and Universities;
- Directed a team of 15 people, actively monitoring their work and ensuring smooth project integration;
- Negotiated with external vendors to obtain sponsorships and favourable commercial conditions;
- Developed technical and financial documents to ensure project adherence to technical safety standards and project time/cost baseline;
- Presented the project to the international technical commission during the "FSAE ITALY 2016" competition, where it was awarded the maximum score and judged the best in the competition;
- Demonstrated a deep strategic perspective and a broad set of soft skills crucial for the success of the project.

EDUCATION

01/2021 – 12/2021

2nd Level Master in "Management e Politiche delle Pubbliche Amministrazioni"

LUISS Guido Carli University (Rome, Italy)

EQF Level 8

LUISS 

School of Government

Advanced studies in legal, economic, and managerial disciplines to acquire a strong legal and economic background in support of national and European public administrations, with a particular focus on technology transfer and the principles governing public markets and procurement.

10/2016 – 10/2018

Master of Science in Management Engineering (LM-31)

Address: *Business Innovation and Entrepreneurship*

Università del Salento (Lecce, Italy)



UNIVERSITÀ
DEL SALENTO

Advanced studies in Data Management, Project Management, Innovation Management, Business Intelligence and their applications to: designing new data-driven business and processes (i.e. requirements collection, requirement analysis and system implementation); enhancing existing ones (i.e. digitalization, business processes management, data management, end-users caring and support); coordinating complex technical projects dealing with digitalization (i.e. business integrated management, negotiation techniques)

Final mark: 110/110 with honours

Final thesis title: Investigating Crowdfunding in Real Estate Industry: designing a specific Platform for the Italian Market

Highlights:

- "Ing. Antonio Cecere" Award. After a careful curriculum analysis, I have been awarded as the worthiest Apulian Engineering student from a commission of the Polytechnic of Bari;
- The Project Management Institute awarded me for the best project management presentation of a startup project of mine;
- Start-up Weekend – Winner. I've been awarded for my startup innovative idea, based on a data-driven IoT monitoring system (electronics + IT cloud platform) to check civil structures health and enable predictive maintenance.

09/2011 – 10/2016

Bachelor Degree in ICT Engineering (L08)

Università del Salento (Lecce, Italy)



The course provided the key competencies related to the fields of Information and Communication Technology: Software programming, Data Management, Electronics and Automation.

Final mark: 110/110

Thesis title: "Design and testing of an electronic system based on ST Nucleo boards for data sensors acquisition and wireless transmission for a SAE Formula car"

09/2011 – 06/2012

Istituto Superiore Universitario di Formazione Interdisciplinare (ISUFI) *Lecce, Italy*



The ISUFI is an academic Institute for the best students, operating following the educational model of Scuola Normale Superiore di Pisa: it selects young Italian and foreign talents on a merit base, enhancing their academic studies with interdisciplinary courses. Attended several seminars ranging from Humanities to Economics.

2006 - 2011

Classics High School – ICT strengthen *Liceo Classico "G. Stampacchia" di Tricase (Lecce, Italy)*

Final mark: 100/100

Highlights:

- Awarded the Honorable Mention at the XVIII edition of Certamen Ennianum, an international Latin culture competition reserved to the best Italian and European high school students

SCIENTIFIC RESULTS

Scientific Publications



Scan or tap to access the publications

1. "NAAA is dysregulated in colorectal cancer patients and its inhibition reduces experimental cancer growth", *British Journal of Pharmacognosy, 2021*
2. "Design and testing of a control system based on STM X-Nucleo development boards for detection and wireless transmission of sensors data applied to a single-seat formula SAE car", *International Journal of Electronics and Telecommunications, 2019*
3. "A Data Science environment for climate change research at CMCC", *CMCC National Annual Conference, Giugno 2019*
4. "A ST X-Nucleo-based telemetry unit for detection and WiFi transmission of competition car sensors data: firmware development, sensors testing and real-time data analysis", *International Journal on Smart Sensing and Intelligent Systems, 2017*
5. "Design and testing of a control system based on STM X-Nucleo development boards for detection and wireless transmission of sensors data applied to a single-seat formula SAE car", *Società Italiana di Elettronica, 2017*

Seminars and Academic Lectures

1. **UIC Harmotrack 2023 - International plenary.** The UIC Harmotrack project brings together more than 200 international railway experts, CEO and Directors from 65 railway companies and academic institutions across the globe. The aim is to discuss the future direction of the industry in terms of digitalisation and new technologies. 2023
2. **University "La Sapienza" of Rome:** lectured at the II level Master in "Railways Systems and Infrastructure Engineering" about how the Covid emergency was dealt in the crucial sector of the mobile Diagnostics of the infrastructure. The Remote Control and Digitalization project allowed the operators to remotely perform, in smart working, what they could only perform on board of the trains. 2021
3. **European Central Bank:** held a seminar to the Risk management Directorate on UML and Agile Methodologies for software development. 2018
4. **European Central Bank:** held a seminar to the Risk management Directorate about the Principles of Software Engineering. 2018

PERSONAL SKILLS

Mother Tongue

Italian

Other Languages

ENGLISH

FRANCH

CHINESE

COMPREHENSION		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C1	C2	C1	C1	C1
A2	A2	A2	A2	A2
A1/A2	A1/A2	A1/A2	A1/A2	A1/A2

Communication and negotiation skills

EXCELLENT

Excellent communication skills developed through the continuous activity of presenting my projects and works in national and international environments. As a project manager, I also experienced how to effectively communicate with institutions and stakeholders, implementing new alliances and reinforcing existing sponsorships.

Organisational / managerial skills

EXCELLENT

Excellent organisational and managerial skills, thanks to my continuous experience as negotiator, project manager and technical authority.

IT and job-related skills

Project Management, Supply-chain management, Procurement, Innovation Management e Digital business;
 Microsoft Office: ADVANCED. I can automate difficult Office suite tasks, thanks to VBA;
 Operative Systems: ADVANCED (Linux, Microsoft Windows, Mac OS);
 ICT: Database, Data management, software design, computer networks;
 Software and programming: UML, R, Python, Tableau, Qlik Sense Java, C, Bash, VBA, SQL, MATLAB, XML, HTML.

SELF-ASSESSMENT

Information Processing	Communication	Content Creation	Safety	Problem Solving
Proficient User	Proficient User	Proficient User	Proficient User	Proficient User

Other

- Guitar player;
- Love chess and yoga; Volunteering, open source initiatives

Driving license

B