



NICOLA MIROTTA

18/11/1987

MBA AT LUISS BUSINESS SCHOOL

PHD IN CHEMISTRY AT ALMA MATER BOLOGNA

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PURPOSE

www.nicolamirotta.it

I am interested in innovation and digital transformation strategy, focusing in particular on *new paradigms for strategy implementation* and *business development*.

All my personal and professional experience around the scientific sector helped me to achieve a critical thinking and to be a quick problem solver person.

I am a determinate and open-minded person. I define myself as a creative, innovative, analytical and perceptive.



EDUCATION

Master's in business administration | Luiss business school, Rome

SEP. 2017 – SEP. 2019

PhD in chemistry | Alma Mater Studiorum, Bologna

SEP. 2014 – OCT. 2017

Master's Degree in nanotechnology engineering | Sapienza university, Rome

NOV. 2009 – MAR. 2012

Bachelor's Degree in aerospace engineering | Sapienza university, Rome

NOV. 2006 – NOV. 2009



EXPERIENCE

Innovation manager and business developer | GRAPHENE-XT, Bologna

APR. 2018 – NOW

- Business development related to different industries for the use of graphene
- Communication and marketing of innovative graphene-based products
- Technological innovation through graphene of conventional products that acquire new properties

AI And Innovation Consultant | IBM, Rome

JUL. 2018 – MAR. 2019 (8 MONTHS)

- Artificial intelligence systems (Watson Wex) for the ESA knowledge management system
- Study of scientific papers / final reports / reports in aeronautics and space

Scientific Researcher | CNR - ISOF, Bologna

JAN. 2014 – SEP. 2017 (3.5 YEARS)

- Developing qualitative and quantitative scientific research line
- Research in collaboration with AIRBUS for the development of innovative functional composite materials in the use of the tail planes and the wings of the aircraft
- research and development of nano fillers for use in polymer composite materials in collaboration with FIAT and ABB
- Running out scientific poster and conference

R&D Engineer | Pentachem s.r.l. Rimini



OCT. 2012 – DEC. 2013 (1.5 YEARS)

- Industrialization of nano fillers (graphene) for composite materials with application in aeronautics, automotive and paints (graphene)

Researcher | DTU university, Copenhagen (Denmark)**SEP. 2013 – APR. 2012 (9 MONTHS)**

- Research for the development of nano silicon surfaces structured for gas sensing in exhaust systems (ships, aircraft, large wheeled vehicles) carrying out forecast analyses (costs, benefits and money saving)

**SKILLS**

- **English:** Proficiency
- **Italian:** Mother Tongue
- Proficient use of IT software (Microsoft Office)
- Good use of Digital Marketing Tools (Google Analytics, Word Press and Google Alerts)
- Good ability to self-organize the work, efficient, quick learning and teachable; Good ability to work in chemistry and mechanical laboratory; good skills with Electrical and Electromagnetic measurement
- Windows, Mac OS, Linux Suite Microsoft Office, iWork 09', open office, Internet and Electronic mail. Fortran 90', latex, AutoCAD 2D-3D, MATLAB, Ansys 11.0. Monte Carlo methods, molecular dynamics, finite Element, Watson CA studio, Watson WEX DAE
- **Proactive and empathetic personality**
- **Stunning Communicational and Analytical Skills**

**ACTIVITIES AND AWARDS**

- Official innovation manager list published by Ministry of Economic Development
- Licensed to practice engineering and sign off engineering work
- ECDL certificate
- ECDL CAD-3D certificate
- Cleanroom Operator certificate (DTU Danchip)
- Scholarship entitled "borsa di studio per tesi all'estero" (Sapienza)
- Campus Mentis, Alghero (Career guidance dedicated to the best graduates of Italy - May 2012)
- Best Graduate in nanotechnology engineering (Fondazione Sapienza)

**PATENT AND ARTICLES**

ARTICLES

- Benchmarking of graphene-based materials: real commercial products vs. ideal Graphene (authors: Alessandro Kovtun, Emanuele Treossi, Nicola Mirotta, Alessandra Scidà, Andrea Liscio, Meganne Christian, Filippo Valorosi, Alex Boschi, Robert J Young, Costas Galiotis, Ian A Kinloch, Vittorio Morandi and Vincenzo Palermo, <https://iopscience.iop.org/article/10.1088/2053-1583/aafc6e>)
- Strain Engineering in Highly Wrinkled CVD-Graphene/ Epoxy Systems (authors: George Anagnostopoulos, George Paterakis, Ioannis Polyzos, Panagiotis-Nektarios Pappas, Kostantinos Kouroupis-Agalou, Nicola Mirotta, Alessandra Scidà, Vincenzo Palermo, John Parthenios, Konstantinos Papagelis, and Costas Galiotis, <https://pubs.acs.org/author/Anagnostopoulos%2C+George>)
- Tunable conductivity at extreme electric fields in ZnO tetrapods-silicone composites for high-power cable insulators (authors: Helena Grejer, Nicola Mirotta, Emanuele Treossi, Filippo Valorosi, Fabian Schütt, Leonard Siebert, Yogendra Mishra, Rainer Adelung, Henrik Hillborg, Vincenzo Palermo) - submitted
- Graphene in composite materials (Nicola Mirotta, Cristian Trevisanut, Simone Ligi, Simone Dell'Elce, Erika Gironi)
- Graphene Nano-platelets Thickness and Lateral Size Influence on Thermal and Electrical Properties in Thermoset Composites (poster in GRAPHITA 15 conference)
- Thermal and electrical properties of graphene-based thermoset composites: a study on the role of graphene nano-platelets morphology (poster in Graphene 2016)

PATENT: International application No. PCT/EP2018/056627 for "MULTIFUNCTIONAL DIFFUSION BARRIER", in the name of AIRBUS OPERATIONS S.L. and CONSIGLIO NAZIONALE DELLE RICERCHE

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