



ELETTRA NERI –R&D Manager

Cernusco SN, 20063 (Mi)
elettra.neripaoli@gmail.com
www.linkedin.com/in/elettra-neri-a3a723222

MANAGING SKILLS

R&D risk assessment and mitigation

Active listening and high-level communication strategy

Time management

Translating clients requirements into feasible approach

Top-bottom deconstructive approach to complex projects

TECHNICAL SKILLS

Design & Implementation (OCT sensors, lasers, optical systems, fiber optics, vacuum technology, coils design, water cooling systems)

Data analysis (Python, Origin, Excel)

Simulations (Zemax, Python)

Technical drawing (Inventor, Fusion, Solidworks)

Highly analytic physicist with a solid background on quantum physics and photonics (gauge theories, condensed matter, superfluidity, semiconductor physics, OCTs, photonic crystals, laser physics). Leveraging on a strong lateral thinking, I synthesize complex problems into achievable targets, and successfully translate the demands of stakeholders & clients into concrete, feasible projects.

I invest into active listening and trust building to foster engagement and commitment within the team.

RECENT PROFESSIONAL ACHIEVEMENTS

Since my hiring, I kicked-off the main R&D company project, making up for the major initial project delay.

I lead the R&D team towards the accomplishment of 2 relevant milestones in 2 years, which lead to 1.25 million euros total grant.

PROFESSIONAL EXPERIENCE

R&D Manager – CareGlance s.r.l. (Milan, IT)

JUNE 2024 – PRESENT

- Planning and implementation of R&D short, middle and long term strategy.
- R&D budget planning.
- Risk management and solution strategies to navigate project delays.
- Representing the company in strategic meetings with investors, clients and advisors.
- Translating clients needs into concrete projects.
- Defining procedures in compliancy with ISO9001 standards.

Chief of R&D lab – CareGlance s.r.l. (Milan, IT)

NOVEMBER 2022 – JUNE 2024

- Kick-off of entire experimental project.
- Oversee day-to-day lab activity and supervise jr R&D staff members.
- Design and implementation of optical devices: liquid-crystal micro-cavities, laser sources, laser cavities, interferometry devices.
- Assess innovative methodologies towards competitive and cost effective devices.
- Identify experimental protocols to assess and evaluate prototypes performances against theoretical expectations.

Postdoc researcher – ICFO (Barcelona, SP)

NOVEMBER 2019 – JANUARY 2022

- Managing full-scale experimental setup for quantum simulation.

Office package

- 1D Topological gauge theory with ultracold atoms.
- Raman-coupled Bose-Einstein condensates.
- Mentoring of jr researchers.
- Awarded MARIE SKŁODOWSKA-CURIE FELLOWSHIP in 2021.
- Member of Diversity and Inclusion committee in 2021.

LANGUAGES

- Italian – Native
- English – Fluent ○●●●●
- Spanish – Good ○●●○
- French – Basic + ○●○○
- German – Basic ○●○○
- Korean – Basic - ○○○○

Researcher (PhD) – Lens, INO-CNR, University of Florence

NOVEMBER 2015 – OCTOBER 2019

- Design & implementation of experimental apparatus for quantum simulation with mass-unbalanced Fermi mixtures.
- Exotic superfluidity with Fermi-Fermi ultracold gases.
- Josephson dynamics with fermionic mixtures.
- Collaboration with external companies for custom components realization.
- Data acquisition, processing, filing and reporting.

Internship probationer – INO-CNR, University of Florence

JUNE 2015 – OCTOBER 2015

- Design & implementation of vacuum, magnetic and optical setups.
- Selection and sourcing of industrial components.
- Collaboration with external companies for custom components realization.

EDUCATION

PhD in Physics – Università di Firenze

SEPTEMBER 2019

Master's Degree in Physics and Astronomy (Matter Physics) – Università di Firenze

APRIL 2015

110/110 cum laude

Bachelor's Degree in Physics and Astrophysics – Università di Firenze

JULY 2012

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