

Mario A. Vico

Medical Physicist

Personal Info

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Skills

Radiotherapy	★★★★★
Radiation Safety	★★★★★
Nuclear Medicine	★★★★★
Critical Thinking	★★★★★
Problem Solving	★★★★★
Time management	★★★★★
Teamwork	★★★★★
Communication	★★★★★
Creativity	★★★★★

Software

Eclipse (Varian)	★★★★★
RayStation	★★★★★
Microsoft Office	★★★★★
Python, C#, SQL	★★★★★
MCNP	★★★★★
3D Modeling	★★★★★

Languages

English: Advanced (University Degree in English)	★★★★★
French (Mother Tongue)	★★★★★
Spanish (Mother Tongue)	★★★★★
Catalan (Bilingual)	★★★★★

Industrial Engineer specialized in Nuclear Physics and Radiation.
Working as Medical Physicist at the Spanish National Dosimetry Center.
Proactive, interested in Technologies and Research. Always looking to improve.

Work History

2024/07 - present	Supervisor of Dosimetry Laboratory - Medical Physic <i>Centro Nacional de Dosimetría, Valencia</i> <ul style="list-style-type: none">- Ensuring compliance with radiation safety regulations and quality standards.- Supervising daily lab activities and ensuring accurate dosimetry measurements.- Preparing reports for regulatory authorities and clients.- Managing and training dosimetry staff in radiation safety procedures and measurement techniques.- Ensuring all dosimetry equipment is properly maintained and calibrated according to standards.- Calibration of environmental radiation monitors and personal dosimeters.
2021/07 - 2024/07	Medical Physics Residence <i>Fundación Instituto Valenciano de Oncología, Valencia</i> <ul style="list-style-type: none">- Radiation Safety: Conducting Shielding Calculations, managing personal Dosimetry and developing Protocols and Training programs.- Radiotherapy: Dosimetry, QA for TrueBeam HALCYON and Versa, Patient Verification and treatment techniques such as SBRT, VMAT, IGRT and Brachytherapy. Use of Mosaic and ARIA.- Nuclear Medicine: Machine QA, ensuring Safety Protocols and conducting Patient Dosimetry.- Radiology: Machine QA, development of DRL'S.- Actively engaged in research, presenting findings at National and International Congresses, including delivering oral presentations to share insights and advancements in the field.
2019/02 - 2019/11	Software Developer <i>Sopra Steria, Valencia</i> <ul style="list-style-type: none">- Proficient in .NET software development utilizing languages such as C#, SQL and JavaScript.- Spearheaded development of Protocols and Guidelines ensuring adherence to best practices and standards.- Conducted comprehensive Software Analysis and contributed to the development of new tools.

Volunteering

2018/08 - Present	Project Manager French Speaking Countries <i>AguaPura NGO, Valencia</i> <ul style="list-style-type: none">- Successfully led and managed humanitarian engineering project in a rural region of Burkina Faso.- Coordinated multidisciplinary teams, including international and local resources.- Collaborated with community members to understand their needs and tailor technical solutions accordingly.- Overcame logistical and cultural challenges to ensure successful project delivery within established timelines.
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Education

2025/03	Expert Diploma in Fundamentals of Medical Physics, International University of Andalusia
2021/01	RFIR (Medical Physics Residence Admission Exam) <i>Accepted for MP Residence Program. Ranked 12th out of 220 candidates nationwide for a limited intake of 38 vacancies</i>
2016/09 - 2018/06	Master in Industrial Engineering, specialized in Nuclear Physics and Radiation, Polytechnic University of Valencia <i>2017/09 – 2018/06 Erasmus in Tampere University of Technology (Finland), Energy and Data Analysis.</i> <i>2024 Master Thesis: “MCNP 6 MeV Electron Truebeam Simulation for TSI dosimetry”.</i>
2012/09 - 2016/06	Bachelor Degree in Industrial Engineering, Polytechnic University of Valencia <i>2016/01 - 2016/06 Erasmus in INP Grenoble (France).</i> <i>Thesis: "Optimization of Electron Beam Melting (EBM) for Material Testing" INP Grenoble.</i>

Research

2023/10	International Conference Dosimetry and its Applications (ICDA-4) <i>Oral Communication: “Lutetium-177 PSMA on ambulatory basis, a radiation safety approach”.</i>
2024/06	Radiation Physics and Chemistry https://doi.org/10.1016/j.radphyschem.2024.111898 <i>Scientific Paper: “Lutetium-177 on ambulatory basis, a radiation safety approach”.</i>

Courses

2025/02	Neutron Dosimetry <i>Polytechnic University of Valencia and Consejo de Seguridad Nuclear</i>
2024/10	Practical Course on Calibration of Radiological Protection Equipment. <i>Spanish Society of Radiological Protection</i>