

# Curriculum Vitae

Scarnera, Vincenzo

## CURRENT POSITION

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### Name of company

MER MEC S.p.a.

### Job position

BU Diagnostic System R&D Specialist

## PROFESSIONAL BACKGROUND

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Design of innovative devices for railway infrastructure measuring and inspection. Management of R&D operations, new product introduction and technology development via TRL. In-depth expertise in optoelectronics, optical fibers, high power fibre lasers & amplifiers, optical measurements, guided and free space optical propagation & modelling, data mining, programming.

## EDUCATION AND TRAININGS:

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PhD in Optoelectronics, Optoelectronic Research Centre, University of Southampton, UK

CEng, Registered Chartered Engineer, British Engineering Council, London, UK

MSc, BSc in Optical Engineering, Polytechnic of Milan, Italy

Miscellaneous: Project Management advanced training - Synchro for lean manufacturing course - Hazards & control measures training - Academic writing for research proposals course - SQL training - Levels 1,2&3 CIEH Laboratory health and safety - Fire awareness training course - Laser safety course (CLASS 2, 3A, 3B& 4) - Alcatel O&M course - Certified fibre characterization engineer course

## EXTRAS:

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### *Main publications:*

Transient Modal Instabilities in High Power Fibre Lasers, 2019, Optical Society of America

Green up-conversion in  $\text{Yb}^{3+}$ - $\text{Tb}^{3+}$  and  $\text{Yb}^{3+}$ - $\text{Tm}^{3+}$ - $\text{Tb}^{3+}$  doped fluoro-germanate bulk glass and fibre, 2010, Optical Materials

### *Volunteering work:*

Peer reviewing for Optical Society of America (OSA) ed Elsevier (per Optical Materials)