

Marco Venturini-Autieri, Ph.D., C.Eng, MInstP

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Fully-remote / flexible hours

Professional Profile

Multidisciplinary creator and analytical thinker who pairs a doctorate in engineering with 15+ years crafting idea-driven visual and audio assets. Comfortable moving between hard-data reasoning and creative ideation: from designing accelerated-life tests for National Grid to building a boutique catalogue of conceptual stock photos, CGI illustrations and experimental electronic music. Today I seek fully-remote roles that let me merge these skill-sets—e.g. image-quality assurance, AI model training/evaluation, or technical tutoring—where clarity of thought, curiosity and attention to detail are paramount.

Core Competencies

- **Image & Media Quality:** conceptual photography, CGI with Blender, Adobe Photoshop & Lightroom, colour calibration, metadata/SEO keywording
- **Generative AI & Prompt Engineering:** ChatGPT custom GPT builder, AI-assisted keywording and ideation workflows
- **Data & Test Analysis:** MATLAB, experiment design, FMEA/FMECA, acoustic-emission NDT
- **Audio Production:** electronic/experimental composition (Logic Pro, Ableton Live), royalty-free licensing workflows
- **Communication & Tutoring:** peer-reviewed papers, extensive technology reports, university lecturing and mentoring

Recent Independent Work — Italy (2006 – present)

Conceptual Stock Photography & CGI

- Maintain a carefully curated portfolio licensed through Getty Images/iStock, Adobe Stock and Pond5, prioritising coherence of idea over volume.
- Images used worldwide in print and digital media; highlighted by clients for originality and storytelling value.
- Streamlined metadata generation using custom ChatGPT prompts and lightweight automation tools, raising acceptance speed.

Royalty-Free Music Composer & Producer (2022 – present)

- Composed and produced 150+ experimental electronic tracks distributed on Pond5 and Songtradr.
- Provide stems and alt-mixes to meet diverse production needs; tracks selected for online adverts and podcast IDs.

Earlier Engineering & Research

Research Associate — University of Durham, UK (2009 – 2011)

National Grid project on ageing of protective relays

- Devised environmental chamber and accelerated-life protocol; analysed failure modes and produced an extensive replacement strategy.

R&D Engineer (KTP) — PAYE Stonework & London South Bank University, UK (2007 – 2009)

- Led design of eco-friendly ice-blasting machine for heritage masonry; managed fluid-dynamics sizing and prototype validation.

Ph.D. Researcher — University of Southampton, UK (2003 – 2006)

- Investigated acoustic-emission monitoring of CFRP aircraft structures; developed MATLAB routines for signal classification.

Education & Credentials

- Ph.D. Engineering Sciences, University of Southampton (2007)
- Laurea (BSc+MSc) Aerospace Engineering, University of Pisa (2003)
- Chartered Engineer (Italy) | Member, Institute of Physics

Technical Toolbox

MATLAB | Blender | Adobe CC | Logic Pro | Ableton Live | SolidWorks | WordPress | $\LaTeX$

Languages

Italian (native) | English (fluent)

Interests

Visual arts | Generative AI ethics | Sustainable technology | Product design

Soft Skills

Confident in working independently. Cooperative. Highly available to share and compare ideas with a team. Effective in presenting complex ideas in an understandable way. Author of several notes about academic topics distributed among my colleague students.