


Vasiliki Kontomitrou

Environmental engineer ||
Sustainability & Quality Manager || Lead Auditor for
Quality Management Systems (for ISO 9001)

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EDUCATION	2021 - 2025	MSc in Environmental Catalysis for Pollution Abatement and Clean Energy production Hellenic Open University (HOU), School of Science and Technology (SST), Patras, Greece Diploma Thesis: “Novel Polymeric Photocatalysts Active in Visible Light for Water Splitting and Efficient Pollution Remediation in Liquid and Gaseous Phases”
	2017 – 2018	Certificate of Pedagogical & Technological Teaching Competence School of Pedagogical and Technological Education (ASPETE), Pedagogical Training Program (EPPAIK). Diploma Thesis: “Designing and developing a website to awaken environmental awareness among students” Website link: https://greenecoeducation.weebly.com/
	2003-2009	BSc in Natural resources & Environmental engineering Technological Educational Institute of Crete, School of Applied Sciences, Department of Environmental and Natural Resources Engineering, Chania, Greece. Diploma Thesis: “Airborne Microbial Concentrations and PM10 Levels in Air-Conditioned Offices”

PROFESSIONAL EXPERIENCE	Jan 2013 - present	Technical Scientist Designing and simulating fabrication process procedures for semiconductor devices and circuits. Exploring thin film optical characterization techniques applied to semiconductor materials, such as Spectroscopic Ellipsometry. Contributing to the preparation of both National and European proposals. Participating in Sustainability and Environmental research, focusing on innovative solutions to address pollution, enhance clean energy production, and recommend more eco-friendly practices in laboratories and cleanrooms. Actively involved in the implementation of Quality Management Systems (ISO 9001) in the dual roles of a Quality Manager and a Lead Auditor for Quality Management Systems, adhering to the ISO 9001:2015 standards. Foundation for Research and Technology – Hellas (FORTH-IESL), Microelectronics Research Group (MRG), Heraklion, Crete, Greece
	Oct 2022- Jun2023	Teacher of Environmental Science (Definite duration contracted employment), Apprenticeship Vocational Schools (EPAS), Greek Public Employment Service (DYPA) ♦ <i>Materials Science and Technology</i> ♦ <i>Renewable and Sustainable Energy</i>

Oct 2021- Jun 2022	Teacher of Environmental Science (Definite duration contracted employment), Apprenticeship Vocational Schools (EPAS), Greek Public Employment Service (DYPA) <i>♦Materials Science and Technology ♦Renewable and Sustainable Energy</i>
Nov 2014 – Jan 2015	Teacher of Environmental Science (Definite duration contracted employment), Department of Education and Lifelong Learning, Municipality of Heraklion, Division of Culture and Youth Education (I.N.E.D.I.V.I.M) <i>♦ Environmental Solutions for Sustainable Homes</i>
Mar 2009 – Nov 2012	Design Engineer- Freelance Fully proficient in CAD systems to generate new drawings, modify existing designs and generally involved in projects throughout the whole production process.
Dec 2008	Research assistant - Environmental Geotechnology Magnetic, Resistivity and Electromagnetic survey at Ancient Nikopolis in Epirus. FORTH-IMS (Institute for Mediterranean Studies, Crete), Laboratory of Geophysical - Satellite Remote Sensing and Archaeo-environment.
Mar 2008 – Aug 2008	Internship in Department of Environment Preparation of Environmental Impact Assessment for a wide range of projects in the public sector (renewable energy, water projects, road works etc.) O.A.N.A.K (Eastern Crete Development Organization), Heraklion - Crete, Department of Environment.

OTHER CERTIFICATES

2025

SUSTAIN-E Summer School on Sustainable Electronics

Université Grenoble Alpes (UGA) – hosted at Grenoble INP – Phelma, Organized by GreenChips-EDU, EECONE & Labex MicroElectronics
 16-20 June 2025, Grenoble, France

Topics: Sustainable electronics, Eco-design methods, Life Cycle Thinking, Raw material recovery, Cleanroom technologies, RF and Analog Electronics

Life Cycle Assessment (LCA) based on ISO 14040/14044

Supplementary Distance Education Programme (E-Learning), Center of Continuing Education and Lifelong Learning, National and Kapodistrian University of Athens

2024

Emissions Reduction Plans (PAS 2060, ISO 14068-1:2023, SBti)

TÜV Austria Academy, TÜV Austria Hellas

AI Governance best practices based on ISO 42001

PRIORITY Training Academy, PRIORITY SA

PMI Project Management Ready

TÜV Austria Academy, TÜV Austria Hellas

2023

Greenhouse gases, ISO 14064-1:2018

TÜV Austria Academy, TÜV Austria Hellas

2022

Quality Management Systems Lead Auditor ISO 9001:2015

(CQI / IRCA QMS Lead Auditor)

TÜV Austria Academy, TÜV Austria Hellas

2012

Certificate of Building Energy Inspectors

Technological Educational Institute (TEI) of Crete,

Certified by the Ministry of Environment,

Energy and Climate Change - Official Registry of Energy Inspectors

**TECHNICAL
KNOWLEDGE**

- Experience in software programs simulating fabrication process procedures on semiconductor devices and circuits.
- Experience in designing photolithographic masks.
- Experience in modeling of lithographic processes.
- Experience in semiconductor device modelling.
- Experience in thin film optical characterization in semiconductor materials, Spectroscopic Ellipsometry technique.

**COMPUTER
SKILLS**

- **Flow Designer**, Phoenix Software (Process Flow Visualization)
- **CleWin**, Phoenix Software (Photolithographic mask design)
- **AutoCAD** software (2D, 3D computer-aided design software)
- **PTC Pro Engineer** software (3D Design software)
- **Inventor**, CAD software (3D Mechanical design software)
- **Matlab** software (Data Analysis & Visualization,, Programming & Algorithm Development)
- **Origin** software (Data analysis and graphics software)
- **GIS** (ESRI -software program of Geographic Information System-)
- **MS Windows, MS Office** (Word, Excel, PowerPoint, Microsoft Visio, Microsoft Publisher)
- **eQUAL suite**, GRC (Governance, Risk and Compliance) software

**OTHER
RESEARCH
SKILLS/
INTERESTS**

- Contribute to the preparation of National and European proposals and participate in research projects.
- Participate in Sustainability and Environmental research, focusing on innovative solutions to address pollution, enhance clean energy production, and recommend more eco-friendly practices in laboratories and cleanrooms.

LANGUAGES

English language, B2

German language, B2

AWARDED SPONSORSHIP

Project Title: "Natural Systems for Wastewater Treatment"

Technological Educational Institute of Crete, Department of Environmental and Natural Resources Engineering, Chania, Greece, ΕΠΕΑΕΚ II, 2008