

Vasiliki Kontomitrou

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

Nationality: Greek
Date of birth: 06 AUG 1985
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EDUCATION

- 2021 - present
MSc Student in Environmental Catalysis for Pollution and Clean Energy production
Hellenic Open University, Patras, Greece
- 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, 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)
- Oct 2021- Jun 2022
Teacher of Environmental Science
(Definite duration contracted employment), Apprenticeship Vocational Schools (EPAS), Greek Public Employment Service (DYPA)

- 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

2024

Emissions Reduction Plans (PAS 2060, ISO 14068-1:2023, SBti)
TÜV Austria Academy, TÜV Austria Hellas

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

Energy performance certificate

Technological Educational Institute of Crete, Ministry of Environment, Energy & Climate change.

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)

**OTHER
RESEARCH
SKILLS/
INTERESTS**

- **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

- 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.

PUBLICATIONS

▪ **PUBLISHED WORK**

Long-term stability of transparent n/p ZnO homojunctions grown by rf-sputtering at room-temperature

E. Aperathitis, V. Kampylafka, A. Kostopoulos, M. Modreanu, M. Schmidt, E. Gagaoudakis, K. Tsagaraki, V. Kontomitrou, G. Konstantinidis, G. Deligeorgis, G. Kiriakidis, Journal of Materiomics, Volume 5, Issue 3, September 2019, Pages 428-435, DOI: 10.1016/j.jmat.2019.02.006

SU-8 microneedles based dry electrodes for Electroencephalogram

G. Stavriniadis, K. Michelakis, V. Kontomitrou, G. Giannakakis, M. Sevrisianos, G. Sevrisianos, N. Chaniotakis, Y. Alifragis and G. Konstantinidis, Microelectronic Engineering, Volume 159, 15 June 2016, Pages 114-120, DOI: 10.1016/j.mee.2016.02.062

▪ **PRESENTATIONS AT
INTERNATIONAL
CONFERENCES**

Considering Sustainability in Nanofabrication Cleanrooms: Initial Thoughts to Accelerate the Concept

Kontomitrou, V., Lymperopoulou, S., Stavriniadis, G., Stavriniadis, A., Kostopoulos, A., Konstantinidis, G., & Michalas, L., MICRO & NANO 2024, Lemnos, October 11-13, 2024

Cell compatibility study of SU-8 microneedles based wearable dry electrodes for electroencephalogram

G. Kaklamani, G. Stavriniadis, K. Michelakis, V. Kontomitrou, K. Tsagaraki, N. Kornilios, G. Konstantinidis, 45th International Conference on Micro & Nano engineering, September 2019, Rhodes, Greece

Sputtered ZnO nanostructure homojunctions fabricated on room temperature pre-patterned substrates

G. Deligeorgis, V. Kampylafka, A. Kostopoulos, M. Modreanu, M. Schmidt, E. Gagaoudakis, K. Tsagaraki, V. Kontomitrou, G. Konstantinidis, G. Kiriakidis, E. Aperathitis, 45th International Conference on Micro & Nano Engineering (MNE 2019), 23-26 September 2019, Rhodes Greece

Functional metal oxides for smart and energy autonomous windows

V. Kampylafka, I. Kortidis, A. Kostopoulos, K. Tsagaraki, V. Kontomitrou, G. Konstantinidis, G. Deligeorgis, E. Gagaoudakis, G. Michail, G. Kiriakidis, M. Modreanu, M. Schmidt, E. Aperathitis, , Silver Jubilee

Assembly of Advanced Materials Congress, 24-27 March 2019, Stockholm, Sweden

Technology roadmap towards flexible power RF transceivers

G. Stavrinidis, V. Kontomitrou, A. Ziaei, Th. Kehagias, G.P. Dimitrakopoulos, Ph. Komninou G. Konstantinidis

International conference on extended defects in semiconductors (EDS 2018), 24-29 June 2018, Thessaloniki, Greece

Airborne Microbial Concentrations and PM10 Levels in Air Conditioned Offices

V. Kontomitrou, A. Maragkou, M. Lazaridis, M. Vrachopoulos, and E. Katsivela, E-Proceedings of the European Aerosol Conference 2008 (EAC 2008), Thessaloniki, Greece, Abstract T02A113P

LANGUAGES

English language

University of Westminster, EDEXCEL International, Level B2

German language

Goethe Institut, Zertifikat Deutsch, Level B2,
Staatszertifikat über Sprachkenntniss, Level 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
