Emmanouil Anthoulakis

Nationality: Greek **Date of birth:** 15/02/1999 **Phone number:** (+30)6949230171

Email address: manolisanth@gmail.com

Home: Zanni 4-6, 18536 Piraeus (Greece)

ABOUT ME

Enthusiastic physicist with a Bachelor's degree in Physics and a Master's degree in Microsystems and Nanodevices. Possesses a strong foundation in theoretical and experimental physics, hands-on experience in laboratory and analyzing data. Proven ability to collaborate effectively in multidisciplinary teams and adapt to new challenges. Driven by a passion for innovation, seeking opportunities to use the academic knowledge and practical skills to the development of cutting-edge technologies.

WORK EXPERIENCE

Researcher

Epitaxy and Surface Science Lab – National Centre of Scientific Research "Demokritos" [01/10/2024 – Current]

City: Athens ｜ **Country:** Greece ｜ **Website:** https://inn.demokritos.gr/research_group/gdman/

EU-Funded Horizon Projects:

Development Vision transformers with ferroelectric oxides – ViTFOX, https://vitfox.eu/

Scaled FerroelectrIc X-bars for AI-driven sensors and actuaTors – FIXIT, http://fixit-project.eu/

EDUCATION AND TRAINING

Master's degree in Microsystems and Nanodevices

School of Applied Mathematical and Physical Sciences, National Technical University of Athens [13/10/2022 – 11/11/2024]

City: Athens｜ **Country:** Greece ｜ **Website:** https://mina.physics.ntua.gr/

Grade: 8.96

Thesis: Development of a Biological Sensor Using Nanomaterials for Pesticide Detection, Electronic Nanomaterials and Devices Group, National Technical University of Athens

Bachelor's degree in Physics

Department of Physics, University of Crete [21/09/2017 – 27/01/2022]

City: Heraklion ｜ **Country:** Greece ｜ **Website:** http://www.physics.uoc.gr/

Grade: 8.08

Thesis: Development of Optical Fiber Sensor for Aerial Agricultural Spraying Monitoring, Photonic Materials and Devices Laboratory, Foundation for Research & Technology –Hellas

LANGUAGE SKILLS

Mother tongue(s): Greek

Other language(s):

English

LISTENING C2 **READING** C2 **WRITING** C2

SPOKEN PRODUCTION C2 **SPOKEN INTERACTION** C2

Levels: A1 and A2: Basic user - B1 and B2 :Independent user - C1 and C2 : Proficient user

SKILLS

Python / Basic knowledge of C and Matlab / Microsoft Office (Outlook, Excel, Word, Power Point) / Origin software (data processing and analysys) / Web Technologies Fundamentals – HTML, CSS

PUBLICATIONS

[2025]
Assessment of Drone Agricultural Spraying Operations Using Optical Fiber Sensors

M. Konstantaki, E. Anthoulakis, S. Christodoulou and S. Pissadakis, IEEE Journal of Selected Topics in Quantum Electronics(2025)

[2022]
Optical fiber sensors in agricultural applications

M.Konstantaki, A.Padhye, E.Anthoulakis, etc, Paper12139-55, SPIE, France

[2022]
Optical fiber sensors for detecting spraying drift in drone agricultural applications

A.Padhye,E.Anthoulakis, etc, SPIE Photonics West on demand, Proceedings Volume 11953

CONFERENCES AND SEMINARS

[02/11/2023–05/11/2023] Athens
MicroNano2023
10th International Conference on Micro-Nanoelectronics, Nanotechnology and MEMS.

DRIVING LICENCE

Driving Licence: B   29/11/2019 – 29/11/2034