Konstantinos Andrikos

Materials Engineer | Computational Scientist

A Materials Engineer with the skill-set of Computational and Machine Learning Engineer. Experience with open source machine learning frameworks, scientific data management, lab equipment and nanotechnology. My interests also include Monte Carlo Simulation, optimization algorithms, software and hardware development, Internet of Things technology and R&D.

✉ kandrikos@hotmail.com

📍 Athens, Greece

�08 github.com/ummagumma2332

📱 +306986657138

in linkedin.com/in/konstantinos-andrikos

EDUCATION

Computational Mechanics (MSc.)
National Technical University of Athens
07/2021

Materials Science and Engineering (B. Eng)
University of Ioannina
03/2019

ACADEMIC PROJECTS

Smart gas sensors (MSc thesis) - NCSR Demokritos (10/2020 - 05/2021)
- Construction of a data acquisition system
- Application of machine learning to the acquired data. Utilization of pre-trained neural networks for image recognition
- Thesis link: https://dspace.lib.ntua.gr/xmlui/bitstream/handle/123456789/53813/thesis_master.pdf?sequence=1&isAllowed=y

Structural Reliability analysis (02/2020 - 05/2020)
- Stochastic Finite Elements Analysis. Determination of failure probability of concrete beam using Monte Carlo Simulation

Structural Optimization of 2-D truss (02/2020 - 05/2020)
- Linkage between a finite elements program and an optimization algorithm in order to determine the optimal dimensions of cross- sections of a 2-dimensional truss

Evaluation of mechanical and elastic properties of nano-modified mortars using Acoustic Emission monitoring (BSc thesis) (01/2018 - 11/2018)
- Construction of carbon-nanotube reinforced cementitious materials. Evaluation of their mechanical properties via bending and compression tests and their elastic properties by utilizing the non destructive method of acoustic emission

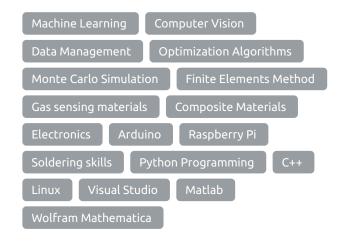## WORK EXPERIENCE

Electronics Engineer
Asso.subsea Limited
11/2021 - Present
Achievements/Tasks
- Assembling, installing, testing, and maintaining electronic or electrical wiring, equipment, components, and systems, using hand tools and power tools

SKILLS

Machine Learning | Computer Vision
Data Management | Optimization Algorithms
Monte Carlo Simulation | Finite Elements Method
Gas sensing materials | Composite Materials
Electronics | Arduino | Raspberry Pi
Soldering skills | Python Programming | C++
Linux | Visual Studio | Matlab
Wolfram Mathematica

CONFERENCES

35th Panhellenic Conference on Solid State Physics and Materials Science (09/2021)
"Machine learning for the identification and classification of various gases by smart sensors" - oral presentation

1st International Conference on Welding and non-Destructive testing (11/2018)
Attendance

CERTIFICATES

Neural Networks and Deep Learning (09/2020 - 10/2020)
Coursera/deeplearning.ai

Python for Data Science and Machine Learning Bootcamp (02/2020 - 03/2020)
Udemy

Introduction to OOP in C# and into software for Finite Elements Analysis"MSolve" (01/2020)
National Technical University of Athens

LANGUAGES

English
Professional Working Proficiency

French
Limited Working Proficiency