Nikolaos Angelopoulos

PhD, M.Sc.

Materials Science Engineer

Member of Technical Chamber of Greece

+30 2310 498267

naggel@certh.gr

Nationality: Greek

Date of Birth: 12/05/1987

Skills:

- Knowledge in Metallurgy and Composite Materials
- Materials Testing and Characterisation
- Laboratory work experience
- Signal processing and pattern recognition
- Data Analysis, Presentation and Reporting skills
- Familiar and good understanding of ISO and quality control standards
- Good communication and Team Working skills
- Analytical thinking and Problem Solving

Work Experience:

Research Associate (Oct. 2023 – Present)

Centre for Research and Technology Hellas (CERTH) - Hellenic Institute of Transport (HIT) | Thessaloniki, Greece

- Participation in Research Projects in the transport sector
- Carrying out Experimental and Laboratory work within the requirements of relevant projects
- Data analysis and reporting of experimental and technical work

Postdoctoral Researcher (Jun. 2023 – Sept. 2023)

School of Materials Science and Engineering | University of Ioannina, Ioannina, Greece

- Improving manufacturing techniques of Composites materials
- Damage evolution monitoring using Acoustic Emission techniques
- Providing guidance and assistance to Doctoral Researchers

Project Engineer (Oct. 2018 – Sept. 2022)

MYTILINEOS S.A.- METKA | Volos Industry, Volos, Greece

- Project Management
- Production coordination
- Monitoring of production progress

Laboratory Metallurgist (Jun. 2016 – Oct. 2017)

AMPP-Services Ltd. Ely, Cambridgeshire, UK

- Evaluation of welds and metallurgical processes applied within the aerospace industry
- Batch evaluation of semi-finished and finished gas turbine blades
- Welder qualification assessment

Internship Training (Jul. 2008 – Sept. 2008)

EBETAM A.E. – MIRTEC S.A. Volos, Greece

- Testing and certifications of fire extinguishers
- Mechanical Testing
- Metallography
- Non-Destructive Testing Methods of Welds

Additional information:

- English (Level C2)
- Cat. B Driving License
- Military obligations fulfilled

Scholarships:

Scholarships awarded from the State Scholarships Foundation of Greece (I.K.Y.) throughout the study for the undergraduate degree (years 2005-2008

Interests and Hobbies:

- Science and Technology
- Automotive Engineering
- Hiking
- Photography

Education:

PhD in Metallurgy and Materials (Oct. 2012 – Jul. 2017)

School of Metallurgy and Materials |University of Birmingham, UK

Thesis title: "Damage Detection and Damage Evolution Monitoring of Composite and Steel-Composite Joint Components for Maritime Applications using Acoustic Emission Techniques"

M.Sc. Master Diploma (Sept. 2010 – Mar. 2012)

School of Mechanical engineering | University of Thessaly, Volos, Greece

Graduation Grade: 7.90

Research project dissertation title: "Microstructural and Intermetallic Compound Examination on Bimetallic Al-Cu Laser Welds".

B.Eng in Materials Science and Engineering (with integrated master) (Sept. 2005 – Apr. 2011)

School of Materials Science and Engineering | University of Ioannina, Ioannina, Greece

Graduation Grade : 8.25

Research project dissertation title: "Heat treatment effect on the microstructure and on the corrosion behaviour of a cast Ni-Cr-Nb alloy"

Publications:

Nikolaos Angelopoulos, Mayorkinos Papaelias, Chapter 11: Automatic statistical analysis of acoustic emission data sets. In Book: Non-Destructive Testing and Condition Monitoring Techniques for Renewable Energy Industrial Assets, Butterworth-Heinemann, 2020, Pages 159-176.

Angelopoulos, Nikolaos, and Papaelias Mayorkinos. Automated analysis of acoustic emission signals based on the ISODATA algorithm. Insight-Non-Destructive Testing and Condition Monitoring 60.3 (2018): 130-138.

Angelopoulos, Nikolaos and Papaelias, Mayorkinos. Effective automated analysis of acoustic emission signals, First World Congress on Condition Monitoring - WCCM 2017.

P. Vallely , A. Amini, Z. Huang , E. Giannouli, Shengrun Shi, Nikolaos Angelopoulos, Francisco Nieves Bogonez, Jenna Davis, Dek Owen, Slim Soua, and Mayorkinos Papaelias. An Integrated Approach to Remote Condition Monitoring of UK Railway Assets, WCRR 2016, Milan, Italy, June 2016.

N. Angelopoulos, S. Ojo, G.F. Fernando, M. Papaelias, Presentation: Structural health monitoring of E-glass fibre bundles using acoustic emission, CM 2014 Conference and Exhibition, Manchester, UK, June 2014.