Nikolaos Nikolakis

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nikolas-nikolakis
Nikolaos Nikolakis
Nationality: Greek
Date of birth: 08.12.1987

Research Interests

- Cyber-Physical Production Systems
- Smart Manufacturing
- Digital Twin
- Machine & Evolutionary Learning
- Predictive Analytics

Professional Experience

2020–present **Postdoctoral Researcher, Project Management**, *Laboratory for Manufacturing Systems & Automation (LMS),University of Patras*, Patras, Greece.

Project management, *European Union Research Projects:*.
- openZDM
- MAS4AI
- AssetUp4.0
- TFOOD
- SERENA

2013–2020 **Research Engineer, Project Management**, *Laboratory for Manufacturing Systems & Automation (LMS),University of Patras*, Patras, Greece.

2017-2020 **Project Management**, *European Union Research Projects:*.
- SERENA
- RAMEN
- Sense&Mine4.0

2013-2019 **Software Development**, *Software architect and implementation in a variety of projects. Indicative developments include:*.
- Human digital twin based on AI methods and sensor fusion (Matlab, Python).
- Data driven predictive analytics pipeline and technical solutions
- Communication interface with Meta-CAM (Java).
- Own the design and implementation of a load balancing system in a production system (R).
- Augmented reality user interface (Unity, C#).
- Multi-objective optimization (energy consumption/gas concentration) (Python)

Education

2015–2020 **PhD in the Laboratory for Manufacturing Systems & Automation, Mechanical Engineering Department**, *University of Patras*, Patras, Greece.
Focus: Cyber-physical Systems, Robotics, Decision-Making, Process planning, Control

2018–2020 **Master in Business Administration (MBA)**, *Hellenic Open University*, Patras, Greece.
Thesis: Economic correlation of crypto-currencies to traditional currencies and the stock market.

2009–2014 **Diploma of Electrical and Computer Engineering, MEng**, *University of Patras*, Patras, Greece.
Focus: Electrical Power Systems. Thesis: *Study and Implementation of an electronic power converter for driving a magneto-flux suspension.*

Technical Skills

Programming Languages: C# (Intermediate), Java (Intermediate), Python (Proficient), PDL (Proficient)
Mathematical and Statistical Software: Matlab (Proficient), R (Proficient), Mathematica (Beginner)
DataBases: MySQL (Intermediate)
Robotic simulators and programming SW: RoboDK (Intermediate), ABB Robot Studio (Intermediate), ROS (Intermediate)
Animation Software : Unity (Intermediate), MotionBuilder (Intermediate), Blender (Intermediate)

Languages

English Proficient level
French Intermediate level
Greek Native Speaker