Nikoleta Papadopoulou

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Applied AI Engineer passionate about Deep learning, LLMs, and deploying AI solutions into production

WORK EXPERIENCE

TDK InvenSense France **Feb 2025 – Jul. 2025**
Machine Learning Engineer Intern *Grenoble, France*

- Designed preprocessing pipeline for accelerometer time-series data (filtering, normalization, segmentation).
- Trained and optimized deep neural networks (TensorFlow, Keras) for tap classification on wearable sensor data; achieved >90% accuracy on embedded prototype
- Integrated DNN into a custom real-time embedded system on an earbud prototype.

Ingeniarius Ltd **Jun. 2021 – Aug. 2021**
Robotics Trainee *Porto, Portugal*

- Worked with ROS, Arduino and Raspberry Pi platforms for mobile robot control.
- Gained hands-on experience with Linux system administration and embedded programming.
- Demonstrated Implemented low-level and high-level control algorithms and tested robot navigation behaviors.

Metratek Telematics Ltd **Apr. 2020 – Jul. 2020**
Junior Project Assistant *Remote*

- Worked on a pilot project with Motor Oil HELLAS, contributing to the automation of docking processes.
- Collected and analyzed hardware performance data, updated SQL databases, and produced client reports.

EDUCATION

Grenoble INP - Ense³, Université Grenoble Alpes (UGA)
Master's Degree (M2) in Technologies des Systèmes d'Information (TSI) *Grenoble, France*
Mobile, Autonomous, and Robotic Systems (MARS)

- Relevant Courses: AI and Automation, Systems Monitoring & Diagnostics, Mobile Robotics, Computer vision project on pose detection using ML

University of Patras
Master of Engineering – MEng, Mechanical Engineering *Patras, Greece*

- Grade: 7.71/10
- Thesis Title: **"Simulation, fabrication and programming of a low-cost quadruped"**
  Developed an open-source 3D-printed quadruped robot using ROS Noetic on a Raspberry Pi 4B (Ubuntu 20.04) and a Teensy 4.0 microcontroller for servo control, with an IMU sensor for orientation tracking.

SKILLS, LANGUAGE & INTERESTS

- **Skills:** Python, C++, TensorFlow, Keras, PyTorch, ROS, Linux, Raspberry Pi, Git, Git Extensions, Docker, IoT, MATLAB, Windows Office, SQL, LLM, Deep Learning, Scikit-learn
- **Languages:** English (C2), Greek (Native), French (B1 Intermediate), Spanish (B1)
- **Soft Skills:** Team-player, Curiosity and Continuous Learning, Problem Solving, Collaboration, Communication