



Nikolina Dimakopoulou

📍 Home : Greece

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Work permit: Greek Gender: Female Date of birth: 20/05/2003 Nationality: Greek

ABOUT ME

I am a **Physics graduate** from the **University of Patras** and currently pursuing an **MSc in Microsystems and Nanodevices** at the **National Technical University of Athens**. My studies focus on **analog circuit design**, **microelectronics**, and **semiconductor devices**, while through academic projects and laboratory work I have gained experience in **circuit simulation**, **signal analysis**, and **electronic systems**. I am interested in **semiconductor and electronic technologies** and eager to further develop my skills in the field.

WORK EXPERIENCE

Poukamisas Educational Group

City: Athens | Country: Greece

[2026 – Current] **Physics Tutor**

- **Delivering core Physics and Mathematics curriculum**, preparing secondary school students for academic coursework and exams.
- **Fostering problem-solving skills and technical creativity** through interactive hardware-software building challenges.

Poligono | Secondary education tutoring school

City: Aigio | Country: Greece

[2024 – 2025] **Physics Tutor**

- Teaching **Physics and Mathematics** to secondary school students.
- Developing **structured learning material** and adapting lessons to students' needs.
- Strengthening **communication, organization, and problem-solving skills** through daily teaching and mentoring.

EDUCATION AND TRAINING

[2025 – Current] **MSc in Microsystems and Nanodevices**

National Technical University of Athens <https://mina.physics.ntua.gr/>

City: Athens | Country: Greece | Field(s) of study: Microsystems, Microelectronics and Nanotechnology | Level in EQF: EQF level 7

- **Design and analysis** of integrated **micro- and nanoelectronic circuits and systems**.
- Study of **semiconductor** and **nanoscale device physics** and their electronic behavior.
- Development and integration of **micro- and nanosystems**, including sensing applications.
- Application of advanced materials in **electronic** and **optoelectronic technologies**.
- Hands-on experience in **micro/nanofabrication** and **cleanroom processes**, including laboratory training at the **National Centre for Scientific Research Demokritos**.

A detailed list of courses enrolled can be given upon request.

[2021 – 2025] **BSc in Physics**

University of Patras <https://physics.upatras.gr/>

City: Patras | Country: Greece |

Field(s) of study: Electronics, Computers, and Signal Processing | Final grade: 7,74 | Level in EQF: EQF level 6 | Thesis: Analysis and implementation of a fourth-order bandpass filter for R-wave detection of an implantable cardiac microstimulator

- Strong foundation in core Physics subjects including Mechanics, Electromagnetism, Quantum Physics and Thermodynamics.
- Practical laboratory experience in Analog Electronics and core Physics experiments.
- Solid background in **Electronics and Computer Science**, with emphasis on:
 - **Analog circuits** and **microelectronics**.
 - **Microprocessor and computer architecture**.

- **Digital electronics** and **signal theory**.
- **Digital signal processing (DSP)** techniques.
- Analytical and problem-solving skills through mathematical modeling and simulations.
- Ability to connect theoretical knowledge with practical applications in technology.

A detailed list of courses enrolled can be given upon request.

CERTIFICATIONS

[Microsoft, 2026]

Microsoft Certified: Fabric Analytics Engineer Associate

- **End-to-end data analytics** architecture and deployment using **Microsoft Fabric**.
- **Data ingestion**, complex **transformation**, and scalable **data modeling**.
- Implementation of **analytics workflows** and data pipelines for technical environments.

[Microsoft, 2026]

Microsoft Certified: Power BI Data Analyst Associate

- Advanced **data modeling**, relationship management, and **DAX calculations**.
- Designing **interactive dashboards**, reports, and **data visualizations**.
- Transforming **raw data** into actionable **analytical insights**.

LANGUAGE SKILLS

Mother tongue(s): Greek

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

German

LISTENING B2 READING B2 WRITING B2

SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2

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

SKILLS

Electronics and circuit design | Orcad / PSpice | Cadence | Signal Processing | C++ | Data Analysis | Microsoft Fabric | Microsoft Power BI | Semiconductor Device Physics | Cleanroom Technologies | Problem Solving | Teamwork | Adaptability | Communication Skills

PROJECTS

[2024 – 2025]

Bachelor Thesis – Fourth-Order Bandpass Filter for R-Wave Detection of an Implantable Cardiac Microstimulator

- Designed and analyzed a **fourth-order analog bandpass filter** for biomedical signal processing applications.
- Performed **circuit simulation** and signal analysis for R-wave detection and noise reduction.
- Applied principles of **analog electronics**, **signal processing**, and electronic system design in a biomedical engineering context.

[2022]

EBEC Challenge Patras – BEST Patras

- Worked collaboratively with other students to analyze and solve a **real-world engineering case study**, delivering structured and innovative solutions under strict time limits.
- Applied **critical thinking**, **creativity**, and **interdisciplinary knowledge** to develop feasible strategies with tangible impact.
- Strengthened **teamwork**, **leadership**, and **communication skills** by presenting and defending our results **in front of an academic and professional jury**.

CONFERENCES AND SEMINARS

[2024]

IEEE CIRCUITS AND SYSTEMS SOCIETY Greece

Lecture by Prof. Ahmed Madian

- Gained insight into advanced **analog and electronic circuit design** concepts.

- Expanded knowledge of modern challenges and applications in **microelectronics** and electronic systems.
- Strengthened understanding of signal processing and integrated circuit technologies through interaction with researchers and engineers.

[2022] **Training Action “ Solar resource and forecasting at municipality” by EO4GEO** Greece

- Applied **data analysis methods** for solar energy forecasting and environmental monitoring.
- Gained experience in interpreting **scientific and geospatial data** for technological applications.

[2021] **“International Masterclasses HANDS ON PARTICLE PHYSICS” by National And Kapodistrian University Of Athens and National Team IPPOG (2021)**

Greece

Organized by the National and Kapodistrian University of Athens and the National IPPOG Team.

- Analyzed experimental data from **CERN** using scientific data analysis techniques.
- Developed **analytical thinking** and problem-solving skills through collaborative scientific work.

VOLUNTEERING

[2021 – 2022] **Volunteer – Science and Technology Museum, University of Patras** Greece

- Participated in **science outreach activities** and interactive educational presentations.
- Strengthened **communication and organizational skills** through collaboration with educators and visitors.

[2014 – 2022] **Scout Member – Scouts of Greece** Greece

- Developed **teamwork, adaptability, and leadership skills** through group activities and volunteering initiatives.
- Strengthened **responsibility and organizational skills** in collaborative environments.

HOBBIES AND INTERESTS

Hobbies

- Reading **scientific and literature** books
- Traveling and exploring **new cultures**
- Hiking and **outdoor** activities
- Art and **creative** expression