



## Athanasios Arvanitidis

**Passport:** AY4147348 | **Date of birth:** 6 Jul 1999 | **Place of birth:** Thessaloniki, Greece |

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### ABOUT MYSELF

I am a Researcher and Innovation Project Manager at Future Needs, holding a BSc in Physics and an MSc in Biomedical Engineering. I lead EU-funded research projects from proposal development to implementation, with a strong focus on digital transformation in healthcare and the integration of innovative ICT solutions. My interdisciplinary work bridges systems engineering, AI, cybersecurity, and healthcare technologies, addressing societal challenges through practical, user-centred applications. I have built strong foundations in both technical and managerial domains through hands-on project experience, and I am committed to advancing digital health services that are ethical, secure, and impactful. I have built strong foundations in both technical and managerial domains through my studies, my work experience in EU projects, and my involvement as a member of the Laboratory of Medical Physics and Digital Innovation at Aristotle University of Thessaloniki. I am committed to advancing digital health services that are ethical, secure, and impactful — and to continuously learning and growing in this evolving field.

### WORK EXPERIENCE

 **FUTURE NEEDS MANAGEMENT CONSULTING LIMITED** – THESSALONIKI, GREECE

**RESEARCHER & INNOVATION PROJECT MANAGER** – 1 OCT 2022 – CURRENT

- Lead and manage research activities across EU-funded projects, including BURDI (CEF), ImAFUSA (SESAR), RefMap (Horizon Europe), SAFIR-Med (SESAR), ENTRUST (Horizon Europe), AI4LUNGS (Horizon Europe), TANGO (Horizon Europe), and SmartVitiNet (ERDF I3).

- Contribute to and lead proposal writing under various funding schemes (HORIZON Europe, Erasmus+, Interreg, AMIF, CERV).

- Coordinate and implement tasks on:

- \*Exploitation strategies, Health Technology Assessment, and Impact Assessment.

- \*Legal and Ethical guidelines, ELSI (Ethical, Legal, and Societal Implications) activities, and regulatory mapping.

- \*Social research, including user requirements analysis, public perception, social acceptance studies, and stakeholder engagement.

- \*Policy recommendations, best practice identification, and co-creation methodologies.

- \*Training framework design, educational content development, and workshop facilitation.

 **LAB OF MEDICAL PHYSICS AND DIGITAL INNOVATION** – THESSALONIKI, GREECE

**TEAM MEMBER** – 1 SEP 2021 – CURRENT

- Conducted research on wearable robotics, brain-machine interaction, and serious gaming to enhance neurorehabilitation outcomes for patients with chronic stroke and motor impairments (projects: NeuroSuitUp, HEROES).

- Involved in hardware development, sensor integration, and system testing using Arduino, IMU, EMG, flex sensors, and EMS devices.

- Applied machine learning and neural networks in biomedical signal processing using Python and MATLAB.

- Contributed to software development for rehabilitation interfaces and serious games using Unity.

 **HELLENIC SOCIETY OF BIOMEDICAL TECHNOLOGY** – THESSALONIKI, GREECE

**RESEARCH INTERN** – 1 JUL 2021 – 1 AUG 2021

- Participated in research focused on neural rehabilitation and wearable robotics.

- Conducted signal processing of EMG data and worked with EMG and EMS sensors, as well as inertial measurement units (accelerometers, gyroscopes, magnetometers).
- Supported the development and evaluation of sensor-based systems aimed at improving motor function in rehabilitation contexts.

● **EDUCATION AND TRAINING**

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SEP 2022 – SEP 2024 Thessaloniki, Greece  
**MSC IN BIOMEDICAL ENGINEERING** Aristotle University of Thessaloniki

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**Website** <https://bme.web.auth.gr/en/> | **Level in EQF** EQF level 7

SEP 2017 – SEP 2021 Thessaloniki, Greece  
**BSC IN PHYSICS** Aristotle University of Thessaloniki

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**Website** <https://www.physics.auth.gr/en/> | **Level in EQF** EQF level 6

● **LANGUAGE SKILLS**

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Mother tongue(s): **GREEK**  
Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C2	C2	C2	C2

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

● **SKILLS**

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**Programming Languages & Tools**

Python | MATLAB | Arduino | Git | Visual Studio Code | C | Microsoft Office | LaTeX

**Soft Skills**

Adaptability | Communication | Collaboration | Critical-thinking | Leadership | Problem-solving

● **CONFERENCES & SEMINARS**

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8 OCT 2024 – 9 OCT 2024 TU Delft  
**Systems Workforce Summit**

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As the need for systems engineers is rising, TU Delft and NXTGEN Hightech are organising a unique global event on systems engineering on October 8 and 9, 2024. Thoughtleaders from organisations such as Airbus, ASML, MIT and NASA will discuss the future needs of the Systems Engineering workforce tackling the major transformations in society. The Systems Workforce Summit, an initiative of Professor Emeritus Space Systems Engineering Heinz Stoewer, will take place at TU Delft. Registration is still open, so make sure to reserve your spot.

**Link** <https://systems-workforce.eu/>

10 OCT 2024 – 10 OCT 2024 Thessaloniki  
**Workshop on research ethics and medical technology - Academy for Responsible Research, Teaching, and Innovation (ARRTI)**

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Participated in a workshop exploring ethical principles in medical technology research, responsible innovation practices, and the societal implications of emerging healthcare technologies.

**8,9,10th Panhellenic Conference on Biomedical Technology - Aristotle Medical Forum**

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Attended the 8th, 9th, and 10th Panhellenic Conferences on Biomedical Technology – Aristotle Medical Forum, engaging with current research and developments in biomedical engineering, digital health, and medical innovation in Greece.

Link <https://www.elevit.org.gr/>

10 JUN 2024 – 11 JUN 2024 Thessaloniki

## Medical Education Informatics 2024

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Attended MEI2024, the 5th International Conference on Medical Education Informatics (10–11 June 2024, Thessaloniki), focused on AI, simulation, and digital innovation in health education. Participated in two satellite events on Smart Health Innovation and Simulation in Medical Education.

Link <https://rc.auth.gr/en/conference/189>

## PUBLICATIONS

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2025

### [Integrating Urban Air Mobility into Sustainable Urban Mobility Plans: A Framework and Occupational Profiles for Smart Cities](#)

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**Authors:** Anna Palaiologk, Athanasios Arvanitidis | **Journal Name:** TSASummit 2025

2024

### [Design and implementation of a normative sEMG values database as a tool for quantitative EMG in rehabilitation research](#)

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MSc BME - Thesis

DOI 10.26262/heal.auth.ir.360881

2024

### [Design of A Normative sEMG Database for Biometric Comparison in Rehabilitation Research](#)

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**Authors:** Athanasios Arvanitidis\*, Konstantinos Mitsopoulos, Vasiliki Fiska, Alkinoos Athanasiou and Panagiotis D. Bamidis | **Journal Name:** J Global Clinical Engineering | **Volume, Issue and Pages:** Vol.6 Special Issue 6: 2024

2023

### [NeuroSuitUp: System Architecture and Validation of a Motor Rehabilitation Wearable Robotics and Serious Game Platform](#)

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**Authors:** Mitsopoulos, K., Fiska, V., Tagaras, K., Papias, A., Antoniou, P., Nizamis, K., Kasimis, K., Sarra, P.-D., Mylopoulou, D., Sawidis, T., Praftsiotis, A., Arvanitidis, A., K., Moraitopoulos, A., Astaras, A., Bamidis, P. D., & Athanasiou, A. et al. | **Journal Name:** Sensors | **Volume, Issue and Pages:** Sensors 2023, 23(6), 3281; <https://doi.org/10.3390/s23063281>

2022

### [Neurorehabilitation Through Synergistic Man-Machine Interfaces Promoting Dormant Neuroplasticity in Spinal Cord Injury: Protocol for a Nonrandomized Controlled Trial](#)

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**Authors:** A.Athanasiou, K.Mitsopoulos, A.Astaras, P.Antoniou, N.Pandria, V.Petronikolou, K.Kasimis, N.Terzopoulos, V.Fiska, P.Kartsidis, T.Savvidis, A.Arvanitidis, K.Chasapis, A.Moraitopoulos, K.Nizamis, A.Kalfas, T.Apostolou, I.Magras, P.Bamidis, et al. | **Journal Name:** JMIR Res Protoc. | **Volume, Issue and Pages:** 13;11(9):e41152. doi: 10.2196/41152.

## VOLUNTEERING

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FEB 2018 – SEP 2022 Thessaloniki

### Volunteer - AIESEC in AUTH

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- Conference Manager – YouthSpeak Forum, Thessaloniki

\*Served as Project Manager for the YouthSpeak Forum in Thessaloniki, leading a 5-member team.

\*Oversaw all aspects of conference production, including public relations, delegate services, and partnerships.

\*Coordinated logistics and content to align with youth empowerment and the UN SDGs.

- Head of Product and Marketing – Volunteer Exchanges

\*Regional Head for outgoing volunteer programmes at AIESEC AUTH.

- \*Managed the volunteer experience, from preparation to return, ensuring high-quality cross-cultural exchange and leadership development.
- \*Led weekly/monthly meetings, presented data reports, and tracked KPIs.
- \*Contributed to AIESEC AUTH being awarded Most Valuable Local Committee in Greece (2019) for outgoing volunteer projects.

- Expansion Assistant – AIESEC in Greece
- Supported the national Director of Expansions in assessing new local branch feasibility.
- Conducted research and prepared feasibility reports to inform strategic decisions on national expansion efforts.

JUL 2018 – SEP 2018 Alexandria, Egypt

### Volunteer Trainer

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- Assisted as a coach in a health-focused initiative aligned with the United Nations Sustainable Development Goal 3 (Good Health and Well-being).
- Designed and delivered training sessions and workshops promoting physical activity and wellness.
- Coordinated sessions for obese and mobility-impaired children, fostering inclusive health education.
- Collaborated with partner organisations to ensure alignment with project goals.
- Collected and analysed qualitative data (surveys, interviews) to assess awareness and impact of post-project activities.

## ● HOBBIES AND INTERESTS

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### Sports & Outdoor Activities

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I actively pursue a range of sports and outdoor activities to maintain a balanced and healthy lifestyle. My routine includes gym workouts and running for endurance and strength, while indoor and outdoor climbing challenge my focus and coordination. I also enjoy hiking and mountaineering for their physical demands and connection with nature. Additionally, I play recreational football, which enhances teamwork and agility. These activities contribute to my overall well-being and support a disciplined, goal-oriented mindset.

## ● DRIVING LICENCE

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Driving Licence: B

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*I hereby declare that the information provided above is true and accurate to the best of my knowledge. References and supporting documents are available upon request.*

Thessaloniki, Greece , 10 May 2025