




# Athanasios Papias

Software Developer, Hardware Developer and IoT Engineer



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## WORK EXPERIENCE

### Internship

7/2022-8-2022

Project Intern at the NeuroSuitUp/Heroes project in the Laboratory of Medical Physics and Digital Innovation, Medical School of Aristotle University of Thessaloniki, Greece.

### Voluntary Work

12/2016

Judge at the exhibition section of the 3rd Student Robotics Festival of Greece, organized by the Regional Directorate of Primary and Secondary Education of Central Macedonia, Thessaloniki, Greece.

## EDUCATION

### Integrated Master of Engineering

9/2016 – 9/2023

Integrated M.Eng. Diploma in Computer Science and Engineering, University of Ioannina School of Engineering, Ioannina, Greece.

2/2022 - 7/2022

Thesis topic: Implementation of a Switched Mode Power Supply (SMPS), controlled by an STM32 microcontroller. Grade: 10/10

## PUBLICATIONS

### Neurotechnology Publication

3/2023

"NeuroSuitUp: System Architecture & Validation of a Motor Rehabilitation Wearable Robotics & Serious Game Platform", MDPI, Sensors 2023, 23(6), 3281

## CONTINUOUS TRAINING

### Certificates

02/2023 - 07/2023

IBM Full Stack Software Developer Specialization Certificate, issued by Coursera and IBM .

### Competitions

15-17/9/2022

SAN 2022 (Society of Applied Neuroscience), Poster participation, Subjects: "Developing clinical phenotype-driven neurofeedback serious game for ADHD" & "Developing a modular power supply for a wearable robotic device for neural rehabilitation", Thessaloniki, Greece

24/2/2022, 25/2/2021, 1/3/2018, 23/2/2017

Participation in the Online Qualification Round of «Hash Code» Competition organized by Google, (best score 457.283 pts).

14/10/2017

Participation in the IEEEExtreme 11.0 24-hour programming competition of IEEE (Institute of Electric and Electronics Engineers).

11/2013 – 3/2014

Participation in the online competition «Young Business Talents 2013», organized by Nivea and PRAXIS MMT Corp.

8-9/3/2014

Participation in the FLL (First Lego League) Education Robotics and Innovation Competition of Greece 2013-2014, organized by FIRST, LEGO and eduACT, Thessaloniki, Greece.

# Athanasios Papias

Computer Science and Engineering Student, University of Ioannina, Greece



## HONORS

### Prizes won

3/2014

1st place at the FLL (First Lego League) Education Robotics and Innovation Competition of Greece 2013-2014, organized by FIRST, LEGO and eduACT, Thessaloniki, Greece.

3/2014

2nd prize at the Informatics Part of Annual Science and Technology Conference "ACSTAC" of Anatolia College of Greece for the presentation titled: "Antiseismic device using Arduino".

### Honorable Mentions

11/2013 – 3/2014

Participation in the semi-finals of the online business and administration competition «Young Business Talents 2013», organized by Nivea and PRAXIS MMT Corp.

## FOREIGN LANGUAGES

### English

Excellent knowledge (Level C2). Degree: Certificate of Proficiency in English of the University of Michigan.

Good knowledge (Level B2). Degree: Cambridge ESOL Level 1 Certificate in ESOL International.

### German

Good knowledge (Level B1). Degree: Goethe-Zertifikat B1 – Goethe Institut.

## TECHNICAL SKILLS

### Hardware

Assembly (MIPS and ARM architecture), Drivers, Peripherals, Arduino Microcontroller, STM32 Microcontroller, Raspberry Pi (and similar SoC), Lego Mindstorms EV3, EEG device, Microsoft Kinect, Wearable IoT sensors.

### Software

Unity, MATLAB/Octave, ROS1/2 (Robot Operating System), Android Studio, Flutter IBM Cloud, Git/GitHub, GNS3, Altera Simulation Tools, Visual Studio, Eclipse, SketchUp, Adobe Photoshop, Drupal, Wordpress, Jira.

### Operating Systems

Microsoft Windows 11/10/7, Linux (Debian, RedHat and Arch based), Android, good knowledge of Linux/Unix kernel & commands.

### Programming Languages

Excellent knowledge

Python, Python math and data processing libraries (sklearn, numpy, scipy, pandas, seaborn), Java, C/C++, Arduino C, HTML5, CSS3.

Good knowledge

Dart, C#, Kotlin, MySQL, Verilog, VHDL, XML, Javascript (Angular, React.js), Django.

## SOFT SKILLS

Problem Solving

Communication

Teamwork

Leadership

Responsibility

Resistance to Stress

Active Listening

## INTERESTS

Video Games, Travelling, Social Media, Sports, DIY crafts.



LinkedIn



Personal Website