

# Vaios Papaspyros – Résumé

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<b>Date of Birth</b>	28 <sup>th</sup> April 1994	<b>Email</b>	b.papaspyros@gmail.com
<b>Nationality</b>	Greek	<b>Linked-in</b>	Vaios Papaspyros
		<b>Github</b>	bpapaspyros
		<b>Bitbucket</b>	bpapaspyros

## Experience

**May 2016 - Present**    **Intern at inria, LARSEN Team, Nancy, France**  
*Intelligent Trial & Error with the iCub humanoid robot*

## Education

**Sep 2012 - Present**    **Computer Engineering & Informatics Department, University of Patras Greece**  
**(Under)graduate Student**

CEID offers a 5 year undergraduate program which is a master equivalent (300 ECTS). During these five years is offered a wide variety of computer engineering and science courses, including lab hours and course projects concerning main problems of the computer science field. Main interests in the area of programming, AI & machine learning, computer architecture and algorithms.

**July 2012**    **Costeas-Gitonis School, Athens, Greece**  
**High School | Final Grade: 19.2/20**

Became acquainted with the field of computer science, earning the International Certificate in IT skills (Cambridge) and ECDL core diplomas. Furthermore, I studied basic HTML and C programming as a part of the computer science course as well as independently from the school's program.

**2013 - Present**    **Online Courses**  
**Coursera, MIT Open Courseware, Stanford Center for Professional Development**

I have attended over 10 courses covering a wide range of topics such as Machine Learning, Software Engineering, Android Development, Parallel Programming, Linear Algebra, Computer Architectures, Data Structures, Digital Signals, etc.

Some of them are:

- Machine Learning by Stanford (Coursera) - Course goes through linear regression with one and multiple variables, gradient descent, Neural Networks, Support Vector Machines, etc.
- Programming Cloud Services for Android Handheld Systems by Vanderbilt University (Coursera) - HTTP communication, Java and Cloud Services, Understanding SQL injection, etc
- Linear Algebra (MIT Open Courseware) - Covers basic linear algebra syllabus for engineering students
- Programming Methodology (CS106A) (Stanford Center for Professional Development) - Introductory course for object oriented programming with emphasis on ontology and code structure

## Activities

**Oct 2015 - Present**     **EMB GROUP, University of Patras, Greece**  
*Member*

Member of a newly formed team of the EMB (Engineering in Medicine and Bioinformatics) Society that will take on medical problems that need big data analysis, information retrieval and machine learning techniques.

**Oct 2012 - Feb 2014**     **ROBOTICS CLUB (POLYMECHANON TEAM), University of Patras, Greece**  
*Member*

Mainly worked on developing a graphical user interface using ROS for the project "Polymechanon". Developed more programming skills in accordance with guidelines followed by the community. Gained a lot of useful knowledge about version control systems and code documentation. Furthermore, I studied the basics in the theory of robotics, including basic forward and inverse kinematics.

## Projects

### PROGRAMMING

- **C/C++** - University assignments including parallel programming such as the OpenMP, CUDA and OpenCL APIs, algorithm engineering courses with LEDA, C++ object oriented design & programming, OpenGL graphics, data structures, sorting algorithms, HTTP request parser, posix threads, TCP/IP server-client implementation.
- **Java/Android** - University assignments including swing and JavaFX development. Android applications including micro controller communication.
- **SQL & JDBC** - University assignments combining SQL database design & implementation as well as GUI support through JavaFX and JDBC (for SQL database handling).
- **Matlab/Octave** - University assignments for the Scientific Computation and Digital Telecommunications (quantizer, huffman code, PCM, FSK, PSK implementations) courses. Furthermore, assignments for the online course Machine Learning (Coursera).
- **HTML/CSS/PHP/Javascript** - Simple mailing list manager (with a simple interface) using the campaign monitor php API.

### ROBOTICS

- Interested in advancing in this field.
- Intern at inria (Intelligent Trial & Error with the iCub)
- Worked on developing a GUI for the "Polymechanon" project.
- Studied basic forward and inverse kinematics.

### AI & MACHINE LEARNING

- Interested in advancing in this field.
- Assignments for the online course Machine Learning (Coursera).
- Algorithm implementations such as PSO, various neural network topologies, etc).

## Competitions

- **IEEEExtreme9.0** (Oct 2015) competitor with the team "*Tokyooo*"

World Rank 555/1923

Country Rank 16/67

University Rank 3/8

## Skills

ADVANCED: C/C++(11), Java,  $\text{\LaTeX}$ , Python, Matlab/Octave, Object Oriented Design & Programming

INTERMEDIATE: OpenMP, CUDA, OpenGL, Robot Operating System (ROS), bash scripting, MySQL & Sqlite, HTML 5, CSS, PHP, Javascript

## Certificates

- English - Proficiency Level (C2), Cambridge Certificate
- French - DELF (B2), International Centre for French Studies
- European Computer Driving Licence (ECDL)
- International Certificate in IT Skills

## Languages

GREEK: Native

ENGLISH: Fluent - Professional working proficiency

FRENCH: Limited working proficiency

## Interests

- Machine Learning
- Programming
- Basketball
- Artificial Intelligence
- Robotics
- Music/Guitar