Vaios Papaspyros – Résumé

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	Vrilissia, 15235, Athens, Greece	**Linked-in**	Vaios Papaspyros
Date of Birth	28th April 1994	**Github**	bpapaspyros
Nationality	Greek	**Bitbucket**	bpapaspyros

Experience

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

Education

Sep 2012 - **Computer Engineering & Informatics Department, University of Patras Greece**
Present **(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.

Costeas-Gitonas School, Athens, Greece
July 2012 **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 - **Online Courses**
Present **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 Telecomunications (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

- **IEEExtreme9.0** (Oct 2015) competitor with the team *"Tokyooo"* which ranked 562/(approximately) 2000 in the world, 16/70 in Greece and 2/10 in Patras.

Skills

ADVANCED:	C/C++(11), Java, 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