

# Vaios Papaspyros – Curriculum Vitae

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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>	<a href="https://gr.linkedin.com/in/bpapaspyros">https://gr.linkedin.com/in/bpapaspyros</a>
		<b>Github</b>	<a href="https://github.com/bpapaspyros">https://github.com/bpapaspyros</a>
		<b>Bitbucket</b>	<a href="https://bitbucket.org/bpapaspyros">https://bitbucket.org/bpapaspyros</a>

## Experience

**June 2017 - Present**   **Applied Mechanics Lab, Mechanical Eng. & Aeronautics Dept., University of Patras, Greece**  
**Research Engineer**

**Research Topic:** Unmanned Heterogeneous Swarm of Sensor Platforms.

**Funding:** European Defense Agency (EDA) “EuroSWARM” Project.

**May 2016 - Oct 2016**   **Inria Nancy Grand-Est, LARSEN/Resibots Team, Nancy, France**  
**Research intern**

**Internship Title:** Intelligent Trial & Error with the iCub humanoid robot.

**Research Topic:** Robot damage recovery with safety constraints.

**Supervisor:** Jean-Baptiste Mouret.

**Funding:** European Research Council (ERC) “ResiBots” Project.

**Related Publications:** “Safety-Aware Robot Damage Recovery Using Constrained Bayesian Optimization and Simulated Priors”.

## Education

**Sep 2012 - Present**   **Computer Engineering & Informatics Department, University of Patras, Greece**  
**Master of Engineering (M.Eng) | Expected GPA: 7.34/10**

**Diploma Thesis Subject:** Safety-Aware Intelligent Trial-and-Error for Robot Damage Recovery  
**Grade:** 10/10

**Supervisor:** Ioannis Hatzilygeroudis

**Co-supervisor:** Jean-Baptiste Mouret

**- July 2012**   **Costeas-Gitonas School, Athens, Greece**  
**High School | GPA: 19.2/20**

**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 Architecture, Data Structures, Digital Signal Processing, etc.

## Activities

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

## Publications

PEER-REVIEWED  
WORKSHOPS

**Safety-Aware Robot Damage Recovery Using Constrained Bayesian Optimization and Simulated Priors**, Vaios Papaspyros, Konstantinos Chatzilygeroudis, Vassilis Vassiliades, Jean-Baptiste Mouret, *BayesOpt 2016: Proceedings of the International Workshop on "Bayesian Optimization" at NIPS 2016* | [Supplementary Video](#).

## Programming Assignments & Experience

LANGUAGES  
& APIS

- **C/C++** -
  - **Co-author to robot\_dart**, a policy based, highly templated C++11 generic robotics simulator ideal for evolutionary computation.
  - **Contributor to limbo**, a highly templated C++11 Bayesian optimization framework.
  - **University assignments** requiring extensive use of the **Boost**, **LEDA**, **OpenMP**, **CUDA** and **OpenCL** C/C++-APIs. Furthermore, assignments focusing on C++ object oriented design & programming, **OpenGL** graphics, data structures, sorting algorithms, HTTP request parser, posix threads, TCP/IP server-client implementations.
- **Python** - Implementations including the Aho-Corasick algorithm and genetic programming problems. Plenty of experience with **matplotlib**, **numpy** and the **waf** build system.
- **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.

MACHINE  
LEARNING  
& ROBOTICS

- Interested in advancing in this field.
- Research intern at Inria - Intelligent Trial & Error with the iCub humanoid robot.
- Worked on developing a GUI for the "Polymechnon" project.

## Competitions

- **IEEEExtreme9.0** (Oct 2015) Team "*Tokyooo*" | Ranked top 25% worldwide.

## Skills

**ADVANCED:** C/C++(11), Python, Boost, Eigen, Robot Operating System (ROS), Matlab/Octave, **TeX**, bash scripting, Object Oriented Design & Programming, Policy-based design

**INTERMEDIATE:** OpenMP, CUDA, OpenGL, Java, 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