

Georgios Evangelou

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3 yrs job exp. in S/W Eng.	3 EU projects	2 high-tech projects	2 publications	ECE grad. (top 5%)
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EXPERIENCE

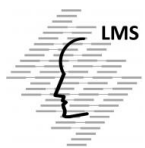


Software Technology PDEng trainee

Eindhoven University of Technology

[November 2021 - present]

- Works as a Professional Doctorate in Engineering trainee (PDEng title: Software Technology).
- Has worked in **2 high-tech industry projects (Philips Research, Airbus)**.



R&D Engineer

Lab. for Manufacturing Systems and Automation

[June 2019 - September 2021]

- Involved in **3 Horizon 2020 EU founded projects** (THOMAS, SHERLOCK, PENELOPE).
- Worked on a Task Planning and Execution system for Human-Robot Collaboration in **industrial environments**.
- **Hosted discussions and coordinates developments** with R&D and industry partners.
- Authored **1 conference paper** (published) and **1 journal article** (under review) in **2 years**.



Teaching Assistant

Digital Signal and Image Processing Laboratory

[October 2019 - January 2020]

- Provided **teaching assistance** in the "Digital Signal Processing" laboratory (4th year undergraduate) course.
- **Introduced and assisted students** on Assembly & C programming and development on C6713 DSK boards.

EDUCATION

Diploma in Electrical and Computer Engineering

University of Patras [Sep 2015 - Aug 2020]

– Grade: 8.45/10.00 (Ranking: **TOP 5%**).

– 5 year studies, BSc & integrated MSc degree (300 ECTS).

– Specialization in Electronics and Embedded Systems.

– Thesis: "Architectures and Implementations of the Neural Network LeNet-5 in FPGAs".

General Certificate of Secondary Education (GSSE)

General High School of Kallipoli, Piraeus, Greece [2015]

– Grade: 19.20/20.00.

AWARDS & RECOGNITION

IEEE AP-S Student Design Contest

Achieved **4th position (globally)** with his team for their *Radiolocation and Channel Sounding* implementation (≈ 20 teams in total). [2018]

Christoulakis Spiritual Institute award

Awarded for being among the **highest performing high-school students** in Piraeus for the years 2014-2015. [2015]

LANGUAGES

Greek	Native Proficiency	-
English	Professional Proficiency	C2, IELTS score: 8
Dutch	Elementary Proficiency	A2
German	Elementary Proficiency	B1

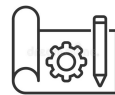
VOLUNTEERING AND OTHER ACTIVITIES

- **Hands-on experience** in over 8 (6mos.-1yr. duration) university projects concerning programming, systems design, and electronics prototyping.
- Technical assistant in *Meletaki summer camp*, providing **technical support** to the autonomous **electrical power and distribution system** of the establishment for more than 3 years.
- Selected **member of the Greek Youth Parliament** (19th summit; 2014), taking part in sessions and giving speeches regarding secondary education in Greece.
- Various activities driven by the ambition to **communicate science** and technology and introduce individuals to relevant concepts.
 - * **Assisted students** of relevant science/technology fields, providing **teaching support** in subjects such as programming, electric circuits analysis, embedded systems design and probability theory.
 - * Involved in activities of *University of Patras IEEE Student Branch* for **2 years** and **elected board member** of the *Power and Energy Society group*.
 - * **Organized, moderated and/or held speeches** in over 5 university seminars.

TECHNICAL SKILLS

- **Programming and Databases:** Java, Python, C/C++, HTML, CSS, JavaScript, MySQL, MongoDB, Docker, ROS, OpenMP, VHDL, (x86, ARM, TI) Assembly, Matlab, Prolog, GNU Radio Companion.
- **Modeling:** BPMN, DMN, UML, SysML.
- **Tools:** IntelliJ, Vivado Design Suite, Code Composer Studio, Camtasia, Git, SVN, \LaTeX , C6713 DSK, Arduino, Linux.

HOBBIES & INTERESTS



Prototyping



Bicycling



Byzantine music

PUBLICATIONS

- Evangelou, Georgios & Dimitropoulos, Nikolaos & Michalos, George & Makris, Sotiris. (2021). *An approach for task and action planning in Human–Robot Collaborative cells using AI*. Procedia CIRP. 97. 10.1016/j.procir.2020.08.006.
- Evangelou, Georgios & Aivaliotis, Sotiris & Kousi, Niki & Koukas, Spyros & Makris, Sotiris. (under review). *Model-based task planning and work re-organization in reconfigurable robotic assembly lines*.

CONFERENCES

- **IEEE APS/URSI 2018**
2018 IEEE International Symposium on Antennas and Propagation and USNC-URSI Radio Science Meeting (8-13 July 2018, Boston, Massachusetts) [2018]
- **ECESCON 11**
11th Electrical and Computer Engineering Students Conference (19-21 April 2019, Thessaloniki, Greece) [2019]
- **CIRP-CATS 2020**
8th CIRP Conference on Assembly Technologies and Systems (29 September - 1 October 2020, Athens, Greece) [2020]
- **ECESCON 12**
12th Electrical and Computer Engineering Students Conference (23-25 April 2021, online) [2021]

UNIVERSITY TALKS

- "Electric Cars and Natural Gas", 14 May 2018, University of Patras, Greece.
- "Autonomous Cars", 29 May 2018, University of Patras, Greece.
- "Developments and Modern Perception regarding the operation of the Electricity Grid", 26 November 2018, University of Patras, Greece.

NOTABLE GITHUB PROJECTS

TITLE	DESCRIPTION	SKILLS TRAINED
A framework for developing NNs in H/W accelerators	H/W accelerator which uses LeNet-5 to identify hand-written digits.	High-Level Synthesis, Embedded Systems design, Image Recognition, Neural-Networks
Parallel Programming with OpenMP	Well-known algorithms implemented using OpenMP (Serial and Parallel Programming).	C/C++, Parallel Programming
ALOHA protocol simulator	Simulates the ALOHA communication protocol and gathers performance statistics.	Python, ALOHA protocol
Bringing yoU Spiti (BUS)	Emulates how a commercial bus line application would work.	Python, Databases, GUI design
PhotoStore	Gathers photos, organizes them in albums and provides some editing tools.	Python, Databases, GUI design
DES encrypter/decrypter	H/W accelerator which performs DES encryption/decryption.	VHDL, Encryption Algorithms
Shift/Add multiplier	H/W accelerator which performs shift/add multiplication on customizable bit-length numbers.	VHDL