

# Arvanitis Christos

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## EDUCATION

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**National Technical University of Athens**

Undergraduate Student

5-Year Integrated Curriculum, Equivalent to Master of Engineering

Department of Electrical and Computer Engineering

2014 - Present

Expected GMO: 8.3/10

## SUMMARY

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An undergraduate Electrical and Computer Engineering student with theoretical background, fieldwork and professional experience in a variety of fields including Computer Systems, Software, Computer Networks and Biomedical Engineering. Skillful and efficient, multifaceted in terms of technology stacks, always eager to broaden knowledge and optimize existing implementations.

## TECHNICAL STRENGTHS & SKILLS

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<b>Programming Languages</b>	C/C++, Python, Java, PHP, Javascript, Bash, Perl, SML, Assembly(8085/86,AVR,ARM), Matlab, R, Verilog HDL
<b>Software &amp; Tools</b>	LaTeX, Git, Octave, Matlab, Docker, Vagrant, LXC, Kubernetes, WEKA, tcpdump, QEMU, make, criu
<b>Operating Systems</b>	Linux, Unix, BSD, Windows
<b>Databases</b>	MySQL, MongoDB
<b>Languages</b>	Greek (native), English (Full professional experience), French (Elementary experience)

## WORKING EXPERIENCE

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**Oxcart Design Studio**

October 2018 - March 2019

*In-house Facebook page parser/aggregator using Graph API*

- Development of WordPress plugin for the aggregator using PHP, Angular/Javascript, Bootstrap 4 and MySQL. Features include asynchronous content loading and local media caching.
- Design of periodic caching system for Graph API usage limits compliance, MySQL query optimization and REST API implementation for client websites.

## CURRENT PROJECTS

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**Diploma Research - Computer Systems Laboratory** [!\[\]\(5a351309c3b87e4420622c1f0e57efc0\_img.jpg\)](#)

*National Technical University of Athens*

- Thesis: Remote fork implementation and process migration using checkpoint/restore technologies.
- Advisors: Stefanos Geragelos, Nektarios Koziris

**Libreoffice Page Numbering Add-on** [!\[\]\(9f3852d68d41e1e95bc4ec10e81aba4b\_img.jpg\)](#)

*Main developer - Maintainer*

- Implementation of page numbering interface and logic for LibreOffice/OpenOffice in Python/Basic.
- Second most popular extension after one year of release with best acceptance ratio (up-votes to down-votes) on official Libreoffice extensions website.
- Translated in multiple languages from the community.

## PAST PROJECTS

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### LibreOffice customization & design of legal templates [↗](#)

May 2018 - August 2018

*Google Summer of Code 2018 for GFOSS-Open Technologies Alliance*

- Development of specific LibreOffice UI customizations and extensions for increased clerical officer productivity, usage and code documentation as well as deployment and testing on Greek Council of State.
- Automate editing and creation of Greek legal documents as an alternative to non-standard templates using open source software for Greek Public Services departments.

### Characterization scripts for ReRAM modules [↗](#)

November 2018 - May 2019

*NTUA Electronic Nanomaterials and Devices Group*

- Development of C/C++ automation scripts compatible with Keithley 4200S hardware.
- Implementation of characterization and stress testing algorithms for NVM memory modules.

### Car rental service implementation [↗](#)

*Databases course: HTML5, Bootstrap 3, AngularJS, PHP, MySQL*

### Cache Hierarchy Simulation Using Intel Pintool

*Advanced Computer Architecture course*

### Full-stack price observatory service with gamification features [↗](#)

*Software engineering course: Node.js REST API, MongoDB, HTML5, Bootstrap 4, JavaScript/AngularJS, css/sass, Docker (deployment), Groovy (unit testing), gulp.js (build automation)*

### Optimization of Parallel Hierarchical One Dimensional Search algorithm in C, custom kernel & software cross compiling for ARM architecture using crosstool/linaro [↗](#)

*Embedded Systems course: C, Linux kernel, System call implementation, crosstool toolchain, make, ARM*

### Wireless Mesh Sensor Network driver

*Operating Systems Lab: C for character device kernel module development, Sockets*

### VirtIO Paravirtualized cryptographic character device for QEMU-KVM

*Operating Systems Lab: C, Sockets, QEMU, cryptodev*

### Askfetch - Linux system information script with modular architecture [↗](#)

*Personal project: Bash, systemd*

### Home security system implementation on AVR featuring control panel, LCD module and timer countdowns [↗](#)

*Microprocessors Lab: AVR assembly, C*

## SIGNIFICANT COURSES

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|---------------------------|--|
| • Operating systems       | • Algorithms & Complexity                                  |
| • Micro-processors lab    | • Computer Networks & Telecommunication Systems Simulation |
| • Programming Languages I | • Embedded Systems Design                                  |
| • Databases               | • Software Engineering                                     |
| • Artificial Intelligence |  |