

GEORGE CHRISTIDIS

Power Electronics Engineer

McLaren Applied Technologies, Woking, UK

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Profile

Electrical and Computer Engineer, with a PhD in the design optimization of power electronics converters and experience in power electronics, analog/digital electronics, microcontroller programming and FPGA synthesis, renewable power generation, digital signal processing, electrical machines and drives.

Research Interests

- DC/AC converters
- DC/DC converters
- Waste heat recovery
- Solar microinverters
- Satellite power systems
- Wide bandgap devices

Education

2010-2016

PhD in Electrical and Computer Engineering

UNIVERSITY OF PATRAS

Research Field: Power Electronics

Efficiency optimization of flyback PV microinverter based on mathematical analysis, simulations and experimental validation

Patras, Greece

2005-2010

Diploma in Electrical and Computer Engineering

UNIVERSITY OF PATRAS

5-year program. Specialization in Electronics.

Thesis in Signal Processing/FPGA implementation.

Patras, Greece

Work Experience

McLaren Applied Technologies:

Power Electronics Engineer

UPatras: *Research assistant*

PPC S.A.: *Electrical engineering intern*

Teaching Experience

Lab Assistant during 6 years on the following courses

Power Electronics I/II

Electrical Machines I/II

Technical Drawing

Selected Research Projects

Renegise *Waste Heat Energy Recovery in Helicopters using power electronics converters (Cleansky JU)*

Synergasia *Energy Recovery during breaking using Supercapacitors and bidirectional converters in electrical drives (NSRF)*

UPSat *Development of Upatras nanosatellite (cubesat) for the QB50 (FP7)*

Social Profiles

 christidis.info/scholar

 christidis.info/linkedin

 christidis.info/github

Skills

Spoken Languages

Greek 
English 
French 

Programming Languages

C 
Java 
Matlab 
Mathematica 
LabVIEW 








Embedded Programming

STM32 
PIC 
TI C2000 
VHDL 

Circuit Simulation

PSPICE 
Simulink 
SaberRD 
PSIM 

Other

Altium 
AutoCAD 
SolidWorks 
Graphics 
MacOS 
CentOS 
Windows 

Publications

Journal Articles: **3**

Conference Papers: **11**

Citations: **84**

Full list at: christidis.info/pubs

Current version: August 2018.

View the most recent version of my resume, as well as my detailed CV at: christidis.info/cv