

# GEORGE CHRISTIDIS

Power Electronics Engineer

Ingolstadt, Bavaria, DE

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## Profile

Electrical 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

Audi: F1 Electronics Engineer

Mercedes AMG HPP: *F1 Electronics Engineer*

McLaren: *Snr Power Electronics Engineer*

## Teaching Experience

Lab Assitant during 6 years on the following courses

*Power Electronics I/II*

*Electrical Machines I/II*

*Techinical Drawing*

## Selected Research Projects

**Renergise** *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](http://christidis.info/scholar)

 [christidis.info/linkedin](http://christidis.info/linkedin)

 [christidis.info/github](http://christidis.info/github)

## Skills

### Spoken Languages

Greek 

English 

French 

### Programming Languages

C 

Java 

Matlab 

Mathematica 

LabVIEW 

### Embedded Programming

STM32 

TI C2000 

Xilinx Zynq 

PIC 

### Circuit Simulation

PSPICE 

Simulink 

SaberRD 

PSIM 

SIMetrix 

### Other

Altium PCB 

Allegro 

AutoCAD 

SolidWorks 

Databases 

Graphics 

### Publications

Issued Patent: **1**

Journal Articles: **5**

Conference Papers: **11**

Citations: **213**

Full list at: [christidis.info/pubs](http://christidis.info/pubs)

Current version: Jan 2024

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