

Georgios Mademlis

Curriculum Vitae

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Professional Experience

- 03/2016 – 03/2021 (expected) PhD Candidate
Chalmers University of Technology, Department of Energy and Environment, Division of Electric Power Engineering, Sweden.
Main supervisor: Prof. Yujing Liu
- Research Topic: Medium Voltage Inverter Design for Machine Drive Applications Using Wind-Bandgap Devices
- Research projects:
- 2016 – 2018 ▪ Power Take-Off System for a Subsea Tidal Kite (PowerKite)
 - 2019 – 2021 ▪ iTEM - Integrated Transmission and Electric Motor
- 2016 – 2019 Licentiate of Engineering Degree
- 10/2010 – 10/2015 Diploma in Electrical and Computer Engineering
Aristotle University of Thessaloniki (AUTH), Greece.
- Diploma Thesis in Industrial Electronics Laboratory (LEI), École Polytechnique Fédérale de Lausanne: “Control and Design of the Multistage Stacked Boost Architecture (MSBA)”, Supervisor: Prof. Alfred Rufer (2015).
 - Specialization in the Department of Electrical Energy (2013-2015).
 - Core courses in Electrical and Computer Engineering (2010-2013).

Publications

See full list of publications at the following link:

→ <https://research.chalmers.se/en/person/mademlis>

Active reviewer at the following societies:

- IEEE Power Electronics Society
- IEEE Industrial Electronics Society
- IET Power Electronics
- IEEE Access



profile: <https://publons.com/researcher/1600576/georgios-mademlis/>

Technical Skills

Programming: Matlab, C, Texas Instruments MCU for drive control, Java
Experimentation: MATLAB/Simulink, PLECS, Code Composer Studio, PSpice, GAMS
Drawing / CAD: Solidworks, Autocad, PCB design tools (e.g. Designspark, Altium Designer), Microsoft Visio, Photoshop

Areas of Interest

Power electronics (control, design and prototyping)
Electrical machines and drives
Sustainable development (renewable energy production, electrified transportation)