

Andreas Katsanikakis

EDUCATION

- 08/2023 – Present **Technical University of Crete, Department of Electrical and Computer Engineering** Chania, Greece
- Doctor of Philosophy, PhD
 - **PhD thesis:** "Control and estimation of epidemics transport combining traffic flow and switched delay systems perspectives."
- 10/2016 – 10/2022 **University of Patras, Department of Electrical and Computer Engineering** Patras, Greece
- Integrated Master of Engineering (5-year degree)
 - Grade: 7.43/10
 - **Degree's thesis:** Autonomous driving and Collision Avoidance on **car-like robotic vehicle.** (Software used CoppeliaSimRobotics and MATLAB/Simulink)
- 09/2012 - 06/2015 **2nd General High School of Chania, Chania, Greece** (Grade: 18.5/20 "Distinction")

PROFESSIONAL EXPERIENCE

- 08/2023 – Present **PhD Researcher**, Department of Electrical and Computer Engineering, Technical University of Crete
- Part of the C-NORA ERC project that aims at development of computationally tractable control designs that harmonize control at both micro and macro levels, for large-scale, distributed parameter transport systems.
- 11/2022 – 05/2023 **Undergraduate Researcher**, Laboratory of automation and robotics, University of Patras
- Research that concerns an energy efficient platooning problem, algorithm design and implementation that seek and track the optimal inter-vehicular distance in the platoon consisted of autonomous vehicles (software mostly used: MATLAB)
The research lead to publication in the MDPI-Applied Sciences journal.
- 06/2022 – 08/2022 **Electrical Engineer**, *Full-time*, Spyropoulos SA
- Technical maintenance and fault repairing of low and medium voltage PV parks. (Inverters, panels, transformers etc.)
 - Technical maintenance of inverters individually.
 - Remote monitoring of PV parks.
 - Customer Support.
- 02/2022 – 05/2022 **Electrical Engineer**, *Internship*, Spyropoulos SA
- Remote monitoring of PV parks.
 - Customer Support (Estimating production losses, reporting of maintenances)
 - Technical Maintenance of PV parks.
- 2014 – 2023 **Deputy Chief Operating Officer (COO)**, *Summer Job*, Blue Beach Villas Apartments, Stavros
- Staff supervisor
 - Reception desk
 - Booking management

SKILLS

- **Software and programming Language**
CoppeliaSim, Lua, MATLAB, Python, Simulink, LabView, C

PUBLICATIONS

- **"Design and Implementation of an Energy-Efficient Vehicle Platoon Control Algorithm Using Prescribed Performance and Extremum Seeking Control"**, *MDPI Applied Sciences*. <https://doi.org/10.3390/app13095650>, Katsanikakis, Andreas, and Charalampos P. Bechlioulis. 2023.

PARTICIPATIONS & VOLUNTEERING

- **Teen Parliament of Greece 2013-2014**, Participated as Teen Member of Greece's Parliament in the educational program "Teen Parliament" (19th Synod)

LANGUAGES

- **English** (fluent, C2 Level / Michigan ECPE and Pearson Test of English General Level 5)
- **German** (basic, B1 Level / Goethe – Zertifikat)
- **Greek** (native)

HOBBIES

- **Tennis**
- **Travelling**
- **Member of Greek traditional dancing club**