

Konstantinos Oikonomidis

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Education

Technical University of Crete

Chania, Greece

Diploma of Electrical and Computer Engineer.

Relevant Coursework: Electrical Installations Design, Electrical Machines, Electrical Power Systems, High Voltages, Energy Management Systems

Experience

Project

Residential Electrical Installation Design

- Design of a comprehensive electrical study for a two-story residence, including ground and first-floor plans, single-line diagrams in compliance with current regulations, and a risk assessment for lightning protection, using TiSoft panelCAD for installers. A detailed presentation of the project is available on my website.

Team Project

Optimization of PEM Fuel Cell Systems – In progress

- Implementation of a control algorithm to enhance the performance of multi-stack PEM fuel cells, using Matlab/Simulink and the Particle Swarm Optimization (PSO) algorithm.
- Design of a DC-DC Boost Converter with a PI-Controller for dynamic load management and minimization of hydrogen consumption.

Activities - Volunteering

- Attended 2025 SCUT Global Summer School of Emerging Engineering, in Guangzhou China, specifically the AI and High-end Manufacture class.
- Participation in WRO Hellas robotics competitions: Designed, constructed, and programmed autonomous robots to navigate specialized courses.
- Participation in ESA (European Space Agency) Robotics Competition: Designed and built a robot within strict dimensions, weight, and autonomy specifications for a simulated lunar surface exploration and rock sample collection mission.
- Three-year volunteer service, participating in firefighting operations and high-pressure team-based missions.

Skills

Technical: panelCAD(electrical installation design software), Matlab/Simulink, MicroSoft Office(Word, Excel, PowerPoint), Programming languages: Java, C,

Languages: Greek(Native), English:C2-Proficiency, German: C1, Chinese: A2