

George Kalampakas

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SUMMARY

Hardware Engineer with 5+ years delivering production-ready IoT solutions and 8+ years in electrical engineering. Manufactured 2000+ units across multiple product lines, deployed 1000+ device fleets with 99.9% uptime, and built end-to-end systems from PCB design to cloud infrastructure.

EXPERIENCE

Lead Hardware Engineer

Gemitech

June 2024 - Present, Athens, Greece

- Implemented 6L mixed signal PCB solutions for precision thermal management enabling consistent material deposition at 0.01mm tolerances.
- Designed the electrical control panel and detailed manufacturing plan for the industrial 3D printer.
- Created an adjustable 300W DC/DC Power Stage with H-Bridge PCB with voltage & current feedback for accurate load control.
- Lead the procurement and validation of more than 40k€ worth of components required for the first production run of the 3D printer.
- Designed Cable assemblies for subcontractor manufacturing.

Full Stack IoT Developer

Do It Technologies (Through Gemitech)

July 2024 - May 2025, Athens, Greece

- Delivered complete IoT switch solution achieving 1000+ units manufactured and 25A high-current control through a 3D 4-PCB modular design.
- Created firmware for ESP32-C3 using FreeRTOS and ESP-IDF with remote task logging over MQTTs that can handle about 15msg/sec.
- Built the complete back-end and an Administrator Management Interface using FastAPI.
- Dev Ops & CI/CD for Application Monitoring and Deployment using Docker.
- Designed the device with the required CE Certification in mind.
- Established the procurement & production process.
- Provide ongoing support and maintenance for all integrated system components.

Full-Stack Developer

CheckInSmart.eu (Own Project)

November 2024 - March 2025, Remote, Greece

- Architecture of a hospitality platform serving 100+ properties with 35% revenue increase through comprehensive digital ecosystem.
- Reduced check-in processing time by 80% through contactless digital processes and automated workflow integration.
- Integrated Booking.com & WhatsApp APIs with real-time synchronization across multi-property management systems.
- Increased revenue by 35% via integrated local services and experience booking capabilities within the platform.
- Improved operational efficiency by eliminating traditional pain points through automated guest communications and ID verification processes.
- Provide ongoing support and maintenance for all integrated system components.

Full-Stack IoT Developer

EMDOT S.A.

September 2022 - June 2024, Athens, Greece

- Designed an Ultra-High-Accuracy ADC for dynamic weighting.
- Deployed enterprise IoT platform managing 1000+ devices with 35% operational efficiency improvement through multi-protocol integration.
- Implemented multi-protocol communication supporting WiFi, LoRaWAN and NB-IoT across distributed industrial fleet.
- Developed JWT authentication system for MQTTs over IPv6 with binary data optimization reducing bandwidth usage by 40%.
- Created web dashboard with GPS visualization and real-time fleet monitoring for 24/7 operations management.

Production Engineer

ELVEM P.C.

September 2018 - August 2022, Athens, Greece

- Design & Manufacturing of Sterilization Equipment and Stability Chambers for the medical & pharmaceutical industry.
- Responsible for small scale production runs.
- Creating custom 3D Printed & Metal Jigs & Assemblies for optimal HVAC pipe routing and testing.
- Working with various metal manufacturing equipment like Lathe, Mill, Brake Press etc.
- Create a PCB version of the Control System that we used to control the Stability Chambers.

EDUCATION

Electrical Engineering (Telecommunications)

Hellenic Mediterranean University · Heraklion, Crete, Greece

- 2012 - 2017
 - Completed ~80% of degree requirements (39 out of 50 courses)
 - Coursework included telecommunications, signal processing, electronics, and networking
 - Program discontinued due to financial reasons
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