Andriotis Konstantinos

- Place of Birth: Egio-Greece
- Military obligations full field
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Degree in Electronics Engineering (2010)
Technological **E**ducation **I**nstitute (TEI) of Piraeus/Department of Electronics

Work History

[04/2023 – present] **Roboteq part of Nidec** (Verification, Validation and Functional Safety Manager), Markopoulo

- Manage Verification & Validation Team responsible for:
    1. System engineering (prepare product requirements documentation and validation requirements-test plans per project)
    2. Firmware Validation activities (functional tests, performance tests)
    3. Production end of line testing (develop automated production test fixtures and validate reliability for mass production)
- Manage the regulatory/compliance team responsible for:
    1. Functional safety management of Roboteq/Nidec projects. Functional Safety certifications under IEC 61800-5-2, ISO 13849, IEC 61508 series and other relevant standards
    2. Product Safety certifications under UL/IEC 61800-5-1, UL 508 and other relevant standards
    3. Material compliance assessments to meet CE marking qualification and North America requirements (RoHS, REACH, TSCA, Prop65, Conflict Minerals etc)
- Managing Internal Lab and technical staff responsible for:
    1. Engineering validation test process (Functional/Immunity testing)
    2. Design validation test process (EMC, Environmental testing)
    3. Collaboration with external labs
    4. Support technically Roboteq Greece facility (rework on electronics, mechanical construction, cables and setups for testing etc.)

[04/2021 – 03/2023] **Roboteq part of Nidec** (Quality, Verification & Validation Manager), Koropi

- Manage Verification & Validation Team
- Support certifications under UL/IEC 61800-5-2 and UL/IEC61800-5-1
- Products quality support (quality metrics, production auditing)
- Approval of changes in production line (ECN/modifications, custom products, labeling)

[05/2019 – 03/2021] **Roboteq Inc.** (Verification & Validation Engineer), Koropi
Roboteq Inc. acquired by Nidec Corporation in November 2019

- Verification & validation for firmware to be released
- Testing & documentation for certificates under IEC 61800-5-2 and IEC 61800-5-1
- Production testing (test fixture – software)
- Functional testing for prototypes
- Approval of changes in production line (ECN/modifications, custom products, labeling)
- Customer support team guidance

[11/2018 – 04/2019] **Roboteq Inc.** (Embedded System Engineer), Koropi

- Hardware electronics testing and debugging
- ST Electronics STM32 microcontrollers programming in C for embedded systems
- Firmware debugging and coding using Raisonance Ride7 IDE
- Circuit design and layout PCB (multilayer) with Altium Designer
- PCB soldering/resoldering
- Circuit testing-debugging using oscilloscope and logic analyzer

	[04/2015 – 10/2018] **ThetaMetrisis S.A.** (Optoelectronics Manufacture), Egaleo • Analog/Digital electronics design • Microchip AVR microcontrollers programming in C for embedded systems • Ti MSP430 microcontrollers programming in C for embedded systems • Circuit design and layout PCB (multilayer) with DesignSpark PCB • Responsible for ISO 9001:2015 for product manufacturing process • Circuit testing-debugging using oscilloscope and logic analyzer • Software coding including USB drivers for Windows systems • Software design using NI LabVIEW suite
	[01/2014 – 12/2016] **Secure1** (Security Systems distributor), Nea Ionia • Owner and customer support
	[02/2011 – 12/2013] **SP Controls LTD** (Security Systems & Automations), Halandri • Customer support for IP cameras installation • Firmware translation (in greek) for security systems (alarm system panels and IP cameras) • Translation for security systems control software • Repairing minor electronic problems at alarm system panels and IP cameras
	[10/2010 – 07/2013] TEI of Piraeus/Department of Electronics, Egaleo • Teaching pro-graduate students of electronic design using CAE software (Cadence Orcad Suite and Cadsoft Eagle) • Teaching pro-graduate students embedded programming using MSP430 microcontrollers
	[03/2010 – 06/2010] **Geomations S.A. (**Agricultural Automations**)**, Athens • Analog/Digital electronic design for climate control at greenhouses • Microchip 8bit microcontrollers programming in C • Electronic sensor uses in designs like pH meter, Air flow meter, current meter, temp-humidity meter • Mechano-electronics use and control like pumps, relays, DC, and servo motors • 3 phase electric installation for motors (Y to Delta converter using relays)
	[09/2006 – 09/2008] **Interssport Athletics**, Athens • Customer care team / Salesman / Part time job
	[04/2004 – 08/2006] **Manetas Sound**, Video and Light, Egio • Sound Engineer • Sound mastering – Studio audio programming and recording • Inside/Outside event sound support
Publications, Patents etc.	Microcontroller laboratory experiment set up, based on the low power consumption family of MSP430 chips for Microcontrollers laboratory/Department of Electronics/TEI of Piraeus Presentation at the International Scientific Conference e RA – 5: "Smart Solar Panels: In-situ monitoring and testing of photovoltaic panels based on wireless sensor networks", K. Antonakoglou, K. Andriotis, P.G. Papageorgas, D. Piromalis, D. Tseles http://era.teipir.gr/ Research and construction of a development system for MSP430 F2XXX microcontroller's family for Microcontrollers laboratory/Department of Electronics/TEI of Piraeus. System and method for increasing braking performance under multi-phase shorting (US20230144377A1 · Filed Dec 14, 2021)

Seminars, Certifications etc.	[2015] Honor Code Certificate – Introduction to Linux – Linux Foundation at edX
	[2015] Certificate of Achievement – Introduction to Computer Science and Programming using Python – MIT at edX
	[2016] Verified Certificate – Introduction to Java Programming Part 1 – The Hong Kong University of Science and Technology at edX
	[2017] Verified Certificate – Introduction to Java Programming Part 2 – The Hong Kong University of Science and Technology at edX
	[2017] Verified Certificate – Introduction to Mobile Application Development using Android – The Hong Kong University of Science and Technology at edX
	[2021] Internal Training – Structural Problem Solving (8D) – Nidec
	[2023] Internal Training – Six Sigma Green Belt Training – Nidec
	[2023] Internal Training – Functional Safety Introduction – TÜV SÜD
	[2023] Internal Training – UL 60730-1 Automatic Electrical Controls – UL
	[2023] Participation Confirmation – PROFIsafe Designer Training – PROFIBUS & TÜV SÜD
	[2025] Certificate – Scientific Problem Solving using the 7 Quality Tools – Kaizen Academy
	[2025] Certificate – The Manager's Toolkit: A Practical Guide to Managing People at Work – University of London at Coursera
	[2025] Specialization Certificate – Energy Production, Distribution & Safety – University of Buffalo at Coursera
	[2025] Specialization Certificate – Achieving Personal and Professional Success – University of Pennsylvania at Coursera
	[2025] Specialization Certificate – Conflict Management – University of California at Coursera
	[2025] Professional Certificate – IBM IT Scrum Master – IBM/SkillUp EdTech at Coursera
	[2025] Professional Certificate – IBM Project Manager – IBM at Coursera
	[2025] Professional Certificate – Microsoft PowerBI Data Analyst – Microsoft at Coursera
Skills	European Driving license category B
	Languages: Greek (native), English (Cambridge FCE), German (entry level)
	Computer skills: MS Windows, Linux (Ubuntu, Ubuntu Server, OpenSuse), MS Office, Libre Office
	Audio Mastering with Magix Samplitude, Steinberg WaveLab, Magix Sequoia, Adobe Audition
	Excellent knowledge of Cadence Orcad (Capture, Layout, Pspice) and Altium Designer
	Programming in C, Java (basic knowledge), Python (basic knowledge), Matlab (basic knowledge), LabVIEW(high skilled)
	Very good knowledge of IP network technology
Interests	Byzantine music (Degree holder), PCB design technology, Greek traditional dance, Percussions and Thracian bagpipes (Greek traditional), Tennis