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ΕΠΑΓΓΕΛΜΑΤΙΚΗ ΠΡΟΫΠΗΡΕΣΙΑ

Technology and policy leader with a track record of steering complex national and EU-level programs across AI, cybersecurity, and advanced telecoms. As CEO of Tools of Tech P.C. and a Board Member at Hellenic Train S.A., I bridge strategy with delivery—turning regulation, risk, and infrastructure challenges into measurable outcomes for critical services and public value.

SEPTEMBER 2025 – NOW: MEMBER, BOARD OF DIRECTORS — HELLENIC TRAIN S.A. (AI, TELECOMS & CYBERSECURITY OVERSIGHT)

I serve on the Board with a mandate to drive trustworthy AI adoption and harden cybersecurity across rail operations. I guide a rail-specific AI roadmap—from data governance and model lifecycle controls to safety-critical deployment standards—prioritizing use cases such as predictive maintenance for rolling stock, timetable and crew optimization, demand forecasting, and computer-vision safety (e.g., platform/track-intrusion alerts and level-crossing monitoring). In parallel, I champion a “secure-by-design” posture across IT/OT: segmenting operational networks, tightening identity and access, enhancing detection-and-response, and stress-testing incident playbooks against rail-relevant threats. Governance and investments are aligned to EU and sector frameworks (NIS2, CER, and IEC 62443 for industrial control systems), ensuring that explainability, privacy, and business continuity are built in from the start. The outcome is safer, more reliable railway operations—delivering measurable improvements in uptime, risk reduction, and passenger confidence.

2024–2025: INTERNATIONAL EXPERT IN PUBLIC WARNING TECHNOLOGIES — GEORGIA

Completed an international advisory assignment as Expert in Public Warning Technologies, supporting the Government of Georgia in defining the technical architecture, system requirements, and implementation pathway for an Integrated Public Early Warning Management System (IPEWMS). The work focused on nationwide public alerting capabilities, including cell broadcast, geofencing, integration with mobile network operators, and coordination across government entities and emergency stakeholders. Building on my previous experience with GR-ALERT and national telecommunications strategy, this role highlighted my ability to

translate complex technical, operational, and institutional requirements into actionable frameworks for critical public safety infrastructure.

JULY 2024 – NOW: CEO AND FOUNDER OF TOOLSOFTech P.C.

I founded Tools of Tech to combine high-level strategy with hands-on delivery across AI/ML, cybersecurity, quantum communications, and next-generation telecoms. I advise public authorities and private enterprises on how to modernize securely—designing operating models, governance frameworks, and roadmaps that convert complex regulation into actionable programs. My work often begins with clarity: defining outcomes, KPIs, and decision frameworks (risk and maturity models, capability heatmaps, policy crosswalks) that help leadership teams choose where to invest and how to execute. From there, I orchestrate the partnerships—industry, academia, and standardization bodies—needed to scale secure networks (fiber, 5G/6G, satellite/space) and deploy AI-enabled services responsibly. The result is a disciplined approach to transformation: evidence-based plans, resilient architectures, and measurable improvements in service reliability, security posture, and stakeholder trust.

SEPTEMBER 2024- SEPTEMBER 2025: MEMBER OF BOARD OF DIRECTORS, HELLENIC DEVELOPMENT BANK

I served on HDB's Board with a brief to accelerate trustworthy AI adoption while strengthening the Bank's cybersecurity and operational resilience. I guided a risk-based AI roadmap—from data governance and model lifecycle controls to responsible use policies—targeting high-impact use cases such as credit-risk analytics, fraud/AML detection, and portfolio monitoring. In parallel, I championed a “secure-by-design” posture across infrastructure and vendor ecosystems: modernizing identity and access management, tightening third-party risk oversight, and enhancing detection-and-response capabilities. I worked to align technology investments and operating procedures with EU frameworks (e.g., DORA for ICT risk management and, where applicable, NIS2), ensuring that privacy, explainability, and business continuity were embedded from the outset. The result was clearer governance, faster—and safer—data-driven decisions, and a measurable uplift in resilience for mission-critical banking services.

NOVEMBER 2020 – JULY 2023: SECRETARY GENERAL OF TELECOMMUNICATIONS AND POSTS – MINISTRY OF DIGITAL GOVERNANCE, HELLENIC REPUBLIC

As SG of Telecommunications and Posts, I have the responsibility to implement the strategy for the Digital Transformation 2020- 2025 of the Greek Government by designing and implementing major projects that will enhance current Telecommunication capabilities of the country. Furthermore, I am responsible for the implementation of the National Cyber Security Strategy 2020-2025.

KEY INTERNATIONAL INITIATIVES

FEBRUARY 2021:

Acceptance of two more Optical Ground Stations in Greece, Cholomondas and Skinakas Observatory, to be part of EuroQCI project along with Chelmos observatory.

JULY 2021:

First successful attempt to establish optical link between AlphaSat and Chelmos observatory, in Kalavryta Greece, for the EuroQCI project.

AUGUST 2021:

US space command and Hellenic Republic agreement on the exchange of information for Space Situational Awareness. This agreement enhanced the position of Greece within the EU SST initiative which is precursor for STM (Space Tracking Management).

SEPTEMBER 2021:

Memorandum of Understanding between Ministry of Digital Governance and ISACA, aiming to activate the pool of cyber security experts in order to achieve strategic objectives of the National cyber security strategy of Greece 2020-2025

NATIONAL PROJECTS UNDER MY JURISDICTION

CYBERSECURITY

Development and implementation of a cybersecurity strategy and a set of cybersecurity policies to increase the resilience and security of public sector IT systems and data and increase public trust in interacting with the public sector. In addition, the reform includes the implementation of the National Cybersecurity Operations Center (SOC) and the provision of advanced Security Services (SOC and DDoS) for G-Cloud critical infrastructure, seeking to limit cybersecurity threats to the public sector.

Total budget 39 MiO Euro

ULTRA-FAST BROADBAND (UFBB)

UFBB is one of the largest Telecommunication projects in Greece. It is a Public-Private project that will create at least 750,000 new connections with minimum 100 Mbps and ability to upgrade to 1 Gbps.

Total budget 700 MiO Euro.

SUPER- FAST BROADBAND (SFBB)

SFBB procurement will facilitate to the transition of internet lines to higher speeds by increasing demand (through a voucher).

Total budget for 2021 650,000 Euro

SUB-MARINE CABLES

Deployment of modern submarine fiber cables that will connect mainland Greece with its islands and Cyprus. It will remove a major obstacle in the availability of high-speed broadband services to end-users, both through fixed and mobile networks, and enhance the capacity and resilience of the backhaul infrastructure in support of 5G and facilitate the creation of datacenters in Greece

Total budget 30 MiO Euro

5G CORRIDORS

Development of 5G network infrastructure along the major Greek Highways that are part of the Trans-European Transport Networks in order to serve the needs for Connected and Autonomous Mobility.

Total budget 160 MiO euro

FIBER OPTIC INFRASTRUCTURE IN BUILDINGS

The investment relates to the installation of the fiber optic infrastructure needed in residential and commercial buildings to promote end-users' connection with very high capacity networks (VHCN), by means of reducing

- (a) the costs of internal cabling and
- (b) the connection fees (the once-off setup fee of broadband services).

Total budget 130 MiO Euro

SMALL SATELLITES

Development of a constellation of small satellites that will support secure telecommunications services, as well as earth observation applications in the fields of mapping, shipping, precision agriculture, spatial planning and others. The investment is an important step in Greece's strategy for deploying space technologies and related applications.

Total budget 200 MiO Euro

JULY 2019 – NOVEMBER 2020: SPECIAL ADVISOR TO THE MINISTER OF DIGITAL GOVERNANCE

As Advisor to the Minister of Digital Governance – Hellenic Republic my task is to implement the strategy of the Hellenic Administration towards Digital Governance.

MAJOR PROJECTS:

- Co-Design of the structure of National Cyber Security Authority under the Secretary General of Telecommunications and Posts
- Implement Open Data strategy of the Hellenic Administration.
- Enhance public sector's procedures and prepare it for the 4th Industrial revolution.

PROJECTS:

- Completed GR-ALERT system with the introduction of CBS messaging system. Handle negotiations between General Secretariat of Civil Protection and Mobile Manufacturers to update all mobile devices sold in Greece. This resulted in the increase of CBS acceptance from 30 % in August 2019 to 80 % in December 2019.
- Procurement process for the procurement process for [Microsoft Enterprise Agreement](#) for the Hellenic public sector.
Total Budget 40 MiO Euro
- Assisted, GS of Civil Protection to design and implement Covid19 monitoring and registry platforms.
- Co-operate with HDIKA CEO, with aim to enhance services offered to citizens (ea. e-prescription, e-allowances).

2017 – 2019: CO-FOUNDER & CTO AT C4P.IO

C4P is a start-up company based in Belgium. Its main task is to produce intelligence from EU public procurements using AI and ML techniques. My main contribution in C4P.io was to design and develop AI/ML algorithms using text analysis, to extract valuable information from EU procurement texts. The C4P platform was successfully launched September 2017 and since then its customer base has increased exponentially, including international IT consulting companies. C4P has won the first prize in EU Datathon on 16th November 2017, organized by the Estonian Presidency of the Council of the European Union and the Publications Office of the European Union.

2016 – 2019: S/W ENGINEERING MANAGER AT INTRALOT S.A.

- Facilitate lotteries worldwide to analyze IT system requirements for Secure data Tx/Rx
- Develop cryptographic algorithms for data encryption
- Implement AES/RSA/ Triple DES/Blowfish encryption to critical data Rx/Tx systems
- Designed specifications after evaluating customer's needs
- Lead and mentored development teams through the whole S/W life cycle.
- Monitor new projects startups ensuring good operation.
- Design monitor and support procedures on per case project
- Assess S/W security vulnerabilities and provide resolutions.

2007 – 2016: SENIOR S/W ENGINEER AT INTRALOT S.A.

- Software design. Secure data Tx/Rx over TCP/IP, GPRS, VSAT
- Software coding and unit testing.
- Systems integration.
- Software documentation.
- Troubleshoot program errors in existing systems
- Co-ordinate other software engineering staff
- Participate in software reviews
- Participate in FRS preparation and evaluation.

2003 - 2006: RESEARCH ASSISTANT AT INFN-SEZIONE DI PISA AND UNIVERSITY OF ATHENS

- After winning an RTN (Research and Training Network) scholarship, I have cooperated with INFN-Sezione di Pisa and worked on the calculation of the inclusive cross section of $W \rightarrow \text{electron} + \text{neutrino}$ process in the forward region of the CDF detector in Fermilab USA (Chicago Illinois), which was my PhD thesis.
- Participated in the Stereo eXtremely Fast Tracker (SXFT) upgrade for the CDF Run II Level-1 trigger upgrade
- Participated in top quark mass measurement in lepton+jets and dilepton channels, with CDF Athens group.
- Preparation and supervision of laboratory sessions, for undergraduate students of University of Athens–Physics Department.
- Responsible for evaluation of students' progress.

TECHNICAL SKILLS:

PROGRAMMING LANGUAGES:

- Assembly, AI/ML algorithms, NLP, C/C++, LabView, SQL, Python

DATABASES:

- Postgresql (Admin level), Oracle,

OTHER

- MS Project, Visual Studio 2010, ROOT (statistics analysis tool), VMware

EDUCATION

2016 -2019 MBA for Executives, in Business College of Athens.

2003-2008: PhD in Nuclear and Particle Physics, University of Athens
"Measurement of the cross section of $W \rightarrow e\nu$ with the electron detected in the plug region of the CDF detector at Fermilab USA"

2001-2003: MSc in Physics, National Technical University of Athens.
Dissertation: *"Development of an automated system for the calibration of photomultipliers for the NESTOR underwater neutrino telescope"*

1994-1999: Degree in Physics, University of Athens.

Dissertation: *"Use of Neural networks for Signal to background discrimination and pattern recognition"*.

PUBLICATIONS:

1. *"Space Cyber Security: Securing the final frontier"*Book. 2025 Leirion Publications
2. Update of the measurement of the $\sigma(W) \times BR(W \rightarrow \nu_e)$ in the plug region using 233 pb⁻¹ of data *CDF Note 8036 [Main author]*
3. Selection criteria and efficiency studies for the Measurement of the $S(pp \rightarrow W)BR(W \rightarrow \nu_e)$ in the Plug *CDF Note 7594 [Main author]*
4. Probing the top quark mass in the dilepton and lepton+jets channels using only lepton information *CDF Note 7888*
5. Kinematics of Top Decays: Probing the Top Mass *CDF Note 7685*
6. Top Physics at CDF Using the Dilepton Channel *CDF Note 7684*
7. "Operation and performance of the NESTOR test detector", *Nuclear Instruments and Methods in Physics Research A* 552(2005)420-439
8. "A measurement of the cosmic-ray muon flux with a module of the NESTOR neutrino telescope", *Astroparticle Physics*, Vol 23, 377-392, 2005
9. The CDF II Level 1 Track Trigger upgrade (*IEEE Volume 55 Issue 1 pg 126-132*)
10. Measurement of the Cross section using Forward Electrons, *American Physical Society*, April 2006, abstract #C13.002