Georgios (George) Kyriakou, Ph.D.

Systems, Operations, and Program Leadership in Deep Tech

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Executive Summary

Founder-operator with over a decade of experience building and operating complex technical systems where research, hardware, software, and operations intersect. My work focused on taking ambitious, multidisciplinary efforts **from early research and experimentation through production, deployment, and support** and making them function reliably in the real world. I specialize in breaking down complex problems, aligning people and resources across domains, and imposing structure where none exists, particularly in environments constrained by uncertainty and hard deadlines.

Professional Experience

Co-Founder & Chief Operating Officer, BotFactory, Inc - New York, NY   2015 - 2025

BotFactory designs and deploys custom electronic manufacturing systems used by Fortune 500 companies, research universities, and multiple branches of the U.S. Department of Defense.

End-to-End System Ownership

- Owned execution of **complex hardware-software systems** from research concept through prototype, validation, manufacturing, deployment, and lifecycle support.
- Translated R&D objectives into executable plans spanning mechanical design, electronics, firmware, software, manufacturing, and quality.
- Acted as the connective tissue between research, engineering, production, supply chain, sales, and customer support.

Program & Research Execution

- Served as PI/PM on multiple federally funded research programs (**DoD, NASA, NSF**), managing scope, milestones, budgets, and technical reporting.
- Authored and coordinated **SBIR/STTR** technical reports, milestone documentation, and program reviews under fixed research deadlines and uncertain outcomes.

- Balanced exploratory research with downstream manufacturability, reliability, and deployment constraints.

Manufacturing, Quality & Operations

- Built and led manufacturing and quality teams (up to 14 concurrent; 40+ total over time).
- Designed and operated **supply chains** for custom systems, including vendor qualification, MOQ negotiation, inventory planning, and lead-time forecasting.
- Increased manufacturing **gross margins** from ~40% to ~75% through process redesign and vendor strategy.
- Reduced customer support ticket volume and resolution time by more than 50% via system redesign, documentation, and QC improvements.

Documentation & Internal Systems

- Created internal **documentation frameworks** including assembly instructions, QC procedures, troubleshooting guides, and operational playbooks.
- Implemented information structures used across engineering, production, and support to maintain continuity as systems and teams scaled.

Academic and Leadership Experience

Adjunct Professor (Part-Time), Mobile Security, New York University   Jan 2025 – Present

- Teach a **hands-on graduate course** focused on real-world systems security.
- Coursework covers Android/iOS vulnerabilities, Wi-Fi/Bluetooth/5G security, protocol analysis, and penetration testing.
- Extensive use of practical tools including Android Studio, Wireshark, Kali Linux, and reverse-engineering workflows.
- Guide semester-long, hands-on projects where students translate current research and real-world threats into practical implementations, using modern tools and code to analyze, attack, and reason about live systems.

Emergency CEO, Wholesale Fresh Produce   2020 – 2022

- Assumed leadership following sudden leadership loss in a high-pressure, perishable-goods operation.
- Operated a wholesale fresh-produce business with ~1.5-day inventory turnaround, requiring precise demand forecasting, rapid logistics coordination, and zero-slack execution.
- Introduced new products after analyzing market demand and operational feasibility.
- Increased revenue by ~80% over two years while reducing waste to under 3%.
- Led a small internal team and coordinated closely with external suppliers, logistics partners, and customers under constant time pressure.

Strategic Advisory Roles

- **NM Angels**: Active member evaluating early-stage technology ventures.
- **AIAA (New York Branch)**: Public Policy Chair, contributing to discussions at the intersection of technology, policy, and national priorities.
- **Strategic Advisor, Private Healthcare Practice**: Support operational scaling, expansion planning, vendor selection, and systems design.

Education

NYU Tandon School of Engineering, Brooklyn, NY
Ph.D. and M.Sc. in Electrical and Computer Engineering (ECE); Dissertation: Delay Analysis, Prediction and Improvement in Wireless Ad   2011 - 2018
Hoc Networks: Utilize Markov and Gossip/Viral Models in Infrastructureless Networks.

Polytechnic University of Thessaly, Volos, Greece
B.S. and M.Sc. in Electrical and Computer Engineering (ECE); Thesis: Increasing the Efficiency of Dense Wireless Ad-Hoc Networks: 2005 - 2011
Existence and Mitigation of the Lock-In Phenomenon: A Game-Theoretic Approach.