



GEORGIOS A. BERTOS

Medical Devices & Healthcare Products Leader

VALUE PROJECTION

I envision and realize Medical Devices and Healthcare Products for Market Disruption with minimal regulatory footprint.

MY CORE AREAS OF EXPERTISE

- Extensive Systems, Biomedical, Electrical, and Software R&D experience.
- Specializes in:
 - (Mobile) Digital Health
 - Infusion Systems
 - Implants
 - Medical Robotics
 - Artificial Limbs
 - Bio-Mechatronics and
 - Artificial Intelligence.

CONTACT

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QUALIFIED ROLES

Director, Medical Devices Engineering or Systems Engineering, Data Science Manager, Director of Strategy/Innovation
Director of Research, Director Emerging Technologies.

Chicago-based, willing to travel
Will consider west coast and east coast.
Full-time. US&EU citizen.

PUBLICATION DETAILS

[Google Scholar](#)
[ResearchGate](#)

COMPETENCIES

Engineering

Artificial Intelligence, Machine Learning
Deep Learning, Pattern Recognition
Medical Devices Product Development
Control Systems
Analog/Digital Electronics
Bio-Mechatronics / Robotics
Model-Based Control, Robust Control
Reinforcement Learning
Advanced Signal Processing
HL7/IHE/LOINC/DICOM
Innovation, Roadmapping
Industry/Academia Collaboration
IoT's, RFID
Implantable Devices

Project Management/Quality Systems

QMS / CMM / CMMI
INCOSE, DFSS, Scaled Agile
Process Improvement
Rational Unified Process
Metrics
ISO/FDA
IEEE 11073
Lean/DFSS/6σ/VOC/WWTP
DMAIC, CAPA
Continua/mHealth/PCHA
Interoperability
Medical Software Development
Staff Development/Hiring
New FDA Guidances
IEC/ISO 60601, 62304, 13485, 14971, SaMD

Continued Business Education

Private Equity, Commercializa
Strategic Leadership
Financial Accounting
Entrepreneurship, Investmen
Micro / Macro-economics
Corporate Finance, Financial
Effective Leadership
Data-Driven Marketing
Business Statistics, Negotiat
Competitive Strategy
Marketing and Pricing
Operations
Product Management

ACCOMPLISHMENTS INCLUDE

- *Led team PYTHIA to be Finalist as 21st team in a 300+ world-wide competition for building the next XPRIZE Health Tricorder.
- *Led systems eng of 2 class II med. prod.: Master Controller & Axone Platform.
- *Author of 2 chapters in Handbook of Biomechatronics. Numeous publications.
- *Reduced by 50% the Regulatory of the Axone Platform by applying SaMD Guidelines of FDA. Envisioned and introduced innovative "Axone Matrix".
- *Envisioned and realized disruptive "Biomechatronic EPP" and "Bionic Shoe".
- *Obtained 7 grants for Baxter-Northwestern collaboration and an EU Marie Sklodwska-Curie Postdoctoral Fellow grant.
- *3 patents.

PROFESSIONAL RESPONSIBILITIES

Lead System Designer (LSD) – GE Healthcare

Founder & CEO (startup) – Bionic Healthcare Inc

Strategist, Applied Marketing, Lead System Designer (LSD) – Baxter
Engineering Manager, Technical Lead – WMS Gaming

Visiting Research Scholar, EU Marie Curie Postdoctoral Fellow – Northwestern U, NTUA

EDUCATION

MBA – University of Chicago Booth School of Business

PhD – Northwestern University, Biomedical Engineering

MSc – Northwestern University, Electrical & Computer Engineering

BSc – National Technical University of Athens, Electrical & Computer Engineering

VALUABLE TO THESE INDUSTRIES

Startups; larger established companies. Medical Devices or Healthcare. Tech Companies that enter Healthcare. Consulting for Innovation in Healthcare & Data Analytics. Biomechatronics / Artificial Limbs companies.