

CURRICULUM VITAE

Michael A. Xynidis, Ph.D.

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EDUCATION

The University of Central Florida, Orlando, FL
Doctor of Philosophy in Modeling and Simulation (2018)
Advisor: Dr. Patricia Bockelman Morrow

The University of Central Florida, Orlando, FL
Master of Science in Modeling and Simulation (2011)
Advisor: Dr. J. Peter Kincaid

Florida Atlantic University, Boca Raton, FL
Bachelor of Arts in Applied Mathematics – Emphasis: Computer Science
Electrical Engineering minor (1986)

PATENTS AND PUBLICATIONS

Patents

Patent: 3D Printer modular filament treatment device (UCF Ref. 33904), U.S. Provisional Pat. Ser. No. 2085.60.PR, filed July 23, 2018.

Journal Publications

“Methodology for Quantitative Assessment of Combat Casualty Care”, M. Xynidis, G. Goldiez *in Transactions of the Society for Modeling and Simulation International*, 2018

Published Addresses

“Leveraging XML in DIS Applications,” *in International Summit on Human Simulation Proceedings*, 2012

“The Development of Medically Correct Software Avatars for Differential Diagnosis and Treatment Experimentation,” *in International Summit on Human Simulation Proceedings*, 2011

PROFESSIONAL AFFILIATIONS

National Defense Industrial Association
Founding Member, International Society for Human Simulation
The National Center for Simulation
The Society for Modeling and Simulation International
The International Institute for Business Analysis

LANGUAGES

[English – native language]

[Greek – speak fluently, read with moderate proficiency, and write with basic competence]

CAREER

- Postdoctoral Scientist/Graduate Faculty Scholar** 2014 – Present
Institute for Simulation and Training – UCF
Researched and published a variety of medical simulation topics for and with the IST deputy director; engaged with U.S. Army Research Labs (ARL) to study battleground readiness under specific environmental conditions; researched and developed a variety of augmented-reality based medical diagnostic devices for training and evaluation functions; engaged in a general array of 3D model design and prototyping projects employing electronic circuit design, machining, and 3D printing, including design documentation and product patent submission.
- Defense Industry Internship—Researcher/Platform Integration** 2012 – 2013
D&SCI /MESH SOLUTIONS, LLC
Researched and developed novel hardware and software for battleground combat simulation using multiple platforms in a distributed interactive simulation (DIS) environment; researched a variety of topics related to U.S. Marine Corps enemy profiling/combat training.
- Graduate Student Researcher** 2009 – 2012
Institute for Simulation and Training - UCF
Researched and developed fireground Incident Command simulation training for the Orange Co. Fire Dept.; developed chemical, biological, radiological, nuclear, and explosives (CBRNE) defense strategy training for federal agencies; developed/programmed novel extensions to the distributed interactive simulation (DIS) network architecture for inclusion with existing IEEE standards.
- Senior Business Analyst** 2003 – 2008
Starwood Hotels & Resorts
Interfaced end-user reservation-system departments with in-house programming and web-design teams; prepared system requirements to implement complex shared-ownership reservation systems; trained customer-support agents in general system use and specialized customer interaction.
- Systems Engineering Consultant** 1995 – 2003
Enosis Consulting (Sole Proprietorship)
Developed and maintained client relationships, prepared system requirements, and engineered product implementations of IT solutions, and provided subsequent customer support.
- Senior Systems Engineer, Marketing Support** 1984 – 1995
International Business Machines
Prepared system requirements, supported product marketing and development, as well as customer support, and engineered and implemented IT solutions on local/regional/global scales.
- Paramedic / Firefighter** 1978 – 1984
Alachua County (Gainesville), Broward County (Ft. Lauderdale)
Engaged in fire combat, emergency rescue, emergency medical intervention and patient stabilization/transport to medical facilities.