

# CURRICULUM VITAE

## PAUL E. NIELSEN



### PERSONAL DATA

- Born May 16, 1959. U.S. citizen.
- Bachelor of Science and Ph.D. in Computer Science from the University of Illinois at Urbana-Champaign.

### CAREER

#### **Fulcrum Edge; Troy, Michigan, USA – 2010 to Present**

Principal with specialty background in entrepreneurship, academia, research, program management, emerging markets, computer science, expert systems, human factors, aerospace, defense, artificial intelligence, and simulation.

#### **Wunderground Magic, Inc.; Clawson, Michigan, USA – 2007 to Present**

Owner of a retail store providing entertainment throughout southeast Michigan.

#### **Kaidara Software, Inc.; Bloomfield Hills, Michigan, USA – 2006**

Senior Project Manager responsible for U.S. operations of professional services for customization of intelligent information retrieval applications.

#### **Altarum Institute; Ann Arbor, Michigan, USA – 2005-2006**

Senior Systems Engineer for research and development in UAV control and multi-level agent-based battlefield modeling.

#### **Soar Technology, Inc.; Ann Arbor, Michigan, USA – 1997-2005**

Co-founder & President (1997-99), Vice President (1999-2005), Senior Scientist for a University of Michigan spin-off focusing on R&D related to human reasoning capabilities and computer generated entities for use in battlefield simulations, air missions, UAV, UGV, and specials ops.

#### **University of Michigan, College of Engineering; Ann Arbor, Michigan, USA – 1993-1998**

Assistant Research Scientist, Department of Electrical Engineering and Computer Science, specializing in research and development of intelligent agents for simulation.

#### **General Electric Corporate Research & Development Center; Niskayuna, New York, USA – 1988-1993**

Computer Scientist in the Information Technology and Artificial Intelligence Laboratories, supporting work for GE Aircraft Engines, GE Industrial and Power Systems, GE Capital and NBC in modeling, artificial intelligence, machine learning, and recognition.

#### **University of Illinois; Department of Computer Sciences; Urbana-Champaign, Illinois, USA – 1982-1988**

Research Assistant in Qualitative Reasoning Group, Project EXCEL, knowledge-based programming in mechanical systems, military base maintenance, machined learning and expert systems.

#### **Intelligent Terminals, Ltd.; Urbana, Illinois, USA – 1980-1982**

Consultant in support, training and installation of the AL/X expert system shell at customer sites.

### SPECIALTY BACKGROUND

- Experience in academic, industrial and research environments.
- Specialty background in artificial intelligence, cognitive modeling, intelligent control, intelligent agents, qualitative physics, and machine learning.
- Start-up business experience and entrepreneurship background.
- Special skills in program management.
- Background in aerospace and defense.
- Previously held DoD security clearance.

### ACTIVITIES & ACCOMPLISHMENTS

- Published over 40 papers, articles and book chapters on topics such as human behavior modeling, expert systems, human factors, intelligence, smart relays, supervisory controls, and qualitative physics.
- Served on a NATO scientific panel.

