

MICHAEL A. CARNEY

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OBJECTIVE

Seeking a full-time position to apply design expertise in complex technical systems in a related field.

EXPERIENCE

University of Central Florida, Institute for Simulation & Training, Orlando, FL

Senior Experience Designer

2016 - Present

- Designed operator interfaces for oil industry and microchip factory digital twins.
- Architected a DARPA-sponsored geospatial population modeling system in Cesium.
- Contributed to federal proposals and briefed government sponsors.

Canon U.S.A., Inc., Melville, NY

Mixed Reality Visualization Consultant

2014 - 2016

- Designed spatial interactions for aerospace, automotive, and architecture.
- Supported RFP responses and integration for Embraer.
- Conducted field research and usability studies.

University of Central Florida, Institute for Simulation & Training, Orlando, FL

Research Faculty

2011 - 2014

- Led VR Incident Commander training simulator for Orange County Fire Rescue.
- Designed VR/AR/MR training environments; co-PI on funded research.
- Designed military training simulations; conducted field interviews.

EDUCATION

University of Central Florida

M.S., Modeling & Simulation Project Management, 2010

B.A., Digital Media - Internet & Interactive Systems, 2007

Certifications

Professional Certificate, AutoCAD / Revit, 2025

Certified SOLIDWORKS Associate (CSWA) - Dassault Systèmes, 2026

SKILLS

Digital Twin Design, Spatial UX & Interaction, Operator Experience Design, Real-Time 3D Systems, Cesium Ion, BIM, GIS Integration, Unity, R&D Program Leadership, Human-AI Collaborative Workflows, AI-Driven Analysis, Agile Teams