

Dr. Charles Martin Jr., Ed.D.

AI & Learning Technology Architect | Practitioner-Scholar & Faculty

Carlsbad, CA | (323) 632-0271 | charlesmartinedd@gmail.com | linkedin.com/in/dr-charles-martin-ufl-usc | github.com/charlesmartinedd

PROFESSIONAL SUMMARY

Education technologist and AI systems architect with a doctorate in Educational Technology and over 15 years spanning K-12 classrooms, federal training, higher education, and the private sector. Designs and builds production AI systems for education, including multi-agent orchestration platforms, programmatic video pipelines, and interactive federal training portals. Currently Vice President at Modellt / Discovery Collective, Director of AI & Learning Technology at Alexandria's Design LLC, and Instructional Systems Designer supporting Department of War programs at Eccalon LLC. Teaches across four universities with 10+ years of continuous online higher education faculty experience. Research centers on AI-augmented instructional design, computational modeling in STEM education, and scalable learning technology architecture.

SKILLS

AI & Intelligent Systems: AI Agent Orchestration, LLM Integration (Claude, GPT, Gemini), Prompt Engineering, MCP Protocol, AI Video Production, Voice AI / TTS, Generative AI (Text / Image / Voice)

Software Engineering: Python, React / Node.js, Full-Stack Web Development, REST API Architecture, Docker, Linux / VPS Administration, Git / GitHub, Playwright, Workflow Automation (n8n)

Instructional Design: ADDIE / SAM, Articulate 360 (Rise / Storyline), SCORM / xAPI / cmi5, LMS Administration, WCAG 2.1 / Section 508, Interactive HTML Scenarios, Federal Training (DoW)

Research & Leadership: Educational Technology Research, Grant Writing (NSF, DoW), Federal Contracting, K-12 Administration, Online Higher Education (10+ yrs), Bilingual (English / Spanish)

PUBLICATIONS & SELECTED WORKS

Martin, M. & Martin, C. *The Fourth Industrial Superintendent: Transforming Public Schools Beyond 21st Century Mindset*. Forthcoming book manuscript. Targeting Harvard Education Press / Corwin / ASCD.

Martin, C. (in preparation). "AI-Augmented Instructional Design: Multi-Agent Orchestration in the ADDIE Lifecycle." Targeting *TechTrends* or *Educational Technology Research & Development (ETR&D)*.

Martin, C. (in preparation). "Programmatic Video Production for Federal Training: A Practitioner Framework." Targeting *British Journal of Educational Technology*.

Becoming ACEs Aware Course Series (UCLA Health / California DHCS) — Statewide Rise 360 eLearning series on trauma-informed care for California healthcare professionals.

DoW Mentor-Protégé Program eLearning Suite (Eccalon LLC) — Interactive federal training portal with SCORM courses, Shepherd.js guided tours, ElevenLabs narration, and Playwright-based walkthrough video pipeline.

EXPERIENCE

Vice President of Education

2024 – Present

ModelIt / Discovery Collective — Remote

- Lead educational strategy for a K-12 STEM nonprofit focused on systems thinking and computational modeling
- Oversee eLearning production, curriculum development, and educational technology integration using the Cell Collective platform
- Manage university and school district partnerships for NSF-funded STEM research in grades 4-8

Instructional Systems Designer

Feb 2024 – Present

Eccalon LLC (Department of War — OSBP Mentor-Protégé Program) — Remote

- Architect and build interactive eLearning portals, SCORM training packages, and guided walkthrough systems for DoW programs
- Develop Section 508-compliant HTML-native interactive scenarios, replacing legacy Storyline modules
- Engineer automated screen recording and narration pipelines using Playwright, ElevenLabs, and Remotion

Director of AI & Learning Technology

2020 – Present

Alexandria's Design LLC — Carlsbad, CA

- Architect multi-agent AI systems for education workflows, deploying autonomous agents with memory, scheduling, and cross-platform integration
- Build programmatic video production pipelines using React (Remotion), generative AI imagery, and AI voice synthesis
- Design and deploy REST API integrations across Google Workspace, Telegram, Smartsheet, and federal training platforms
- Develop federal contract proposals and training solutions for DoW, Navy, and Army MedCOE

Adjunct Professor — English (ENGL 101/102, ALCR 101)

Fall 2024 – Present

Morgan State University (HBCU) — Baltimore, MD (Online)

- Teach English Composition I & II and Academic Literacy to undergraduate students
- Integrate educational technology and culturally responsive pedagogy into course design

Adjunct Professor — Graduate Education

Jan 2016 – Present

Morningside University — Sioux City, IA (Online)

- Teach graduate-level education courses focusing on instructional methods and educational technology
- 10+ years of continuous online higher education teaching

Adjunct Professor — History (World Culture & Diversity)

Current

Knoxville College (HBCU) — Knoxville, TN (Online)

Adjunct Professor

Current

Baptist University of the Americas (HSI) — San Antonio, TX (Online)

eLearning Specialist

Feb 2022 – Feb 2026

UCLA Health — Semel Institute / UCAAN — Los Angeles, CA (Remote)

- Developed eLearning courses and training materials for healthcare professionals using Articulate Rise 360 and Storyline
- Created the "Becoming ACEs Aware" course series for the California Department of Health Care Services

Instructional Systems Designer

US Army MedCOE / 1Prospect (Ahtna) — Fort Sam Houston, TX (Remote)

- Designed instructional systems products for Army Medical Center of Excellence training programs using ADDIE / SAM frameworks
- Built SCORM-compliant eLearning modules for military medical education

eLearning Developer

2020 – 2021

Director of National Intelligence (DNI) — Washington, D.C. (Remote)

- Developed classified eLearning modules for the U.S. Intelligence Community

Curriculum Developer, K-12

2019 – 2020

Cell Collective — Lincoln, NE (Remote)

- Developed K-12 STEM curriculum using computational modeling and systems thinking tools

Curriculum Developer

2018 – 2019

Program 11 / Microsoft Education — Redmond, WA (Remote)

- Developed K-12 computer science and digital literacy curriculum for Microsoft's education initiatives

Curriculum Specialist

2017 – 2018

Age of Learning (ABCmouse) — Glendale, CA

- Designed early childhood digital curriculum and learning activities for the ABCmouse platform

Assistant Administrator

2017 – 2018

Gus Franklin Jr. High School — Adelanto, CA

- Supported school operations, teacher evaluation, and instructional leadership

K-8 Teacher (Computer Lab, Makerspace, ELA, Math, Science)

2016 – 2021

Norton Science & Language Academy — San Bernardino, CA

- Taught K-5 computer lab, 6th-8th grade English / Math / Science, and managed STEM Makerspace program

Elementary Teacher & International Educator

2005 – 2016

Fulton County, Cobb County, DeKalb County (GA); Abu Dhabi Education Council (UAE)

- 10+ years K-8 classroom experience across multiple U.S. districts and international settings

EDUCATION**Ed.D., Educational Technology** — University of Florida (2015)**Certificate, School Administration** — University of Southern California (2020)**M.Ed., Middle Childhood Education** — Georgia State University (2006)**B.A., History** — Georgia State University (2005)**A.A., Spanish / Bilingual Studies** — Foothill College (2001)**CREDENTIALS & CERTIFICATIONS**

CA Multiple Subject Teaching Credential | CA English Single Subject Credential | CA Preliminary Administrative Credential | GA T-5, Middle Grades Education | GA Elementary Education Certificate

HONORS & SERVICE

Faculty, four institutions concurrently: Morgan State University (HBCU), Knoxville College (HBCU), Baptist University of the Americas (HSI), Morningside University | NSF STEM K-12 Co-PI (Proposal, NSF 25-545) | U.S. Top Secret Clearance (Department of War) | Co-author, *The Fourth Industrial Superintendent* | Instructional design contributor, California Department of Health Care Services (Becoming ACEs Aware) | Bilingual (English / Spanish) practitioner, ongoing B.A. Spanish coursework

SELECT PROJECTS & GRANTS

- **NSF STEM K-12 Grant Proposal (Co-PI)** — Proposal under NSF 25-545 for computational modeling in K-12 science education (\$350K–\$500K)
- **Multi-Agent AI Platform (OpenClaw)** — 10-agent autonomous AI system with memory, scheduling, cross-platform messaging, and LLM proxy infrastructure
- **Programmatic Video Production Pipeline** — Code-driven video system using React (Remotion), AI voice synthesis, generative imagery, and automated screen recording
- **CAAASA Video Production** — AI-powered cinematic video production for the California Association of African American Superintendents
- **Cell Collective / ModelIt K-12 Curriculum** — Systems thinking and computational modeling curriculum for middle and high school science