

# CARRIE ALDERFER

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Madison, Alabama

carriealderfer.com/technical-projects

## SUMMARY

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Multidisciplinary professional transitioning from graphic/web design and web programming into Model-Based Systems Engineering (MBSE), seeking a part-time or full-time internship or entry-level role to gain real-world experience and deepen technical expertise in systems modeling. Skilled in collaboration with diverse stakeholders, data organization, visual communication, leading clients through the requirements discovery process, and managing multiple tasks at once. Currently adding new skills in MBSE to apply creative problem-solving and systems thinking to more technical and engineering-focused challenges.

## SKILLS & STRENGTHS

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### Project Management

Managed multiple design projects simultaneously, including budget tracking, vendor coordination, client discovery, progress reviews, and final project delivery. Highly detail-oriented with strong time management and process oversight skills.

### Requirements Definition Discovery

Guided clients through the discovery process to define goals, target audiences, data organization schemes, and user interface parameters. Experienced in translating stakeholder needs into structured, actionable plans. School project experience documenting requirements, deriving and refining requirements based on research and data analysis, and using diagrams and tables in Cameo to show relationships between requirements and structure. Also knowledgeable in uploading requirements from Excel and organizing requirements within packages and tables in Cameo.

### Good Communicator

Skilled at bridging communication between technical and non-technical teams. With a foundation in visual communication combined with skills in science, math, and programming, I make complex ideas accessible and foster shared understanding across disciplines.

### Diverse Technical and Creative Background

Belief that a diverse background of knowledge across the arts and the sciences is beneficial for problem solving, and that continuing education is essential. Skills include in-depth knowledge of Adobe Creative Suite and Wordpress, intermediate knowledge of PHP, CSS, UI design, Procreate, Adobe Acrobat, Microsoft Word and Powerpoint, and beginning skills with Microsoft Excel, Cameo/MagicDraw, Python, Javascript, MySQL, C, C++, UNIX, UX research, Figma, GitHub, and Visual Studio Code.

## PROFESSIONAL EXPERIENCE

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2002 - Present    *Owner, Designer, Programmer / ChromAddict / Madison, AL*

- Develop branding systems for small businesses by analyzing requirements, constraints, and goals to deliver scalable solutions.
- Work with clients to analyze and organize their content in order to design and implement user-friendly websites, coordinate with vendors as needed, and train clients in website maintenance.
- Manage all aspects of my own business, including client management, workflow, day-to-day accounting, product design, and marketing.

## PROFESSIONAL EXPERIENCE continued

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1999 - 2002

*Art Director / ITC^DeltaCom / Huntsville, AL*

- Interfaced extensively with IT department to determine the best site flow, design specifications, and user interface design for the company intranet.
- Smoothed strained relations between Marketing and IT through the ability to communicate each side's issues in terms the other department could understand.
- Learned Active Server Pages to program pages for the company intranet.

1995 - 1999

*Graphic Artist / Sigma Services of America, Inc. (SSAI) / Huntsville, AL*

- Designed and programmed the front-end website and back-end website used by SSAI for conference attendance and management for the Space and Missile Defense Conference (SMDC).
- Conducted Professional Development Hours classes for Professional Engineers on internet technology and HTML.

## EDUCATION

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### **Calhoun Community College, Huntsville, AL**

*Systems Engineering Technology (SET), 08/2025 - Present*

- Will take the second SET course focused on MBSE with Cameo/MagicDraw in Fall 2026

*Short Certificate - Computer Science Essentials - Completed Fall 2025*

### **University of Alabama in Huntsville, Huntsville, AL**

*Graduate Certificate in User Experience, 01/2024 - Present*

Began Graduate Certificate in User Experience with a User Interface Design course

### **University of Alabama in Huntsville, Huntsville, AL**

*Bachelor of Arts Degree in Art, Graphic Design concentration, 09/1993 - 05/1997*

Cum Laude, Honors program, Co-op program, Math minor

## ONLINE COURSES

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### **Coursera.org**

*Data Science Math Skills presented by Duke University, 6/25 - 7/25*

Credential ID BEZE76342TDS

*Python for Everybody five course series presented by the University of Michigan, 5/25 - 6/25*

Credential ID TLWV2TLXJJEO

## AWARDS/HIGHLIGHTS

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- Junior Ambassador and Member of INCOSE, Calhoun Community College Student Division
- Volunteered as Webmaster for Alabama Women's Caucus for Art, 2024-2025
- Earned over 30 American Advertising Awards.
- Received the Governor's Award for Volunteer of the Year, 7th District Chapter of the American Advertising Federation.
- Held various board positions for American Advertising Federation - North Alabama including President, Awards Chair, and Webmaster.