

Kirk Lundblade

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EDUCATION

University of Central Florida Orlando, FL
Ph.D., Texts & Technology (Area of Emphasis: Games and Interactive Media) Expected May 2021

Auburn University Auburn, AL
M.T.P.C., Technical and Professional Communication May 2014
Defense: A Tale of Two Cultures: Accommodation, Expertise, and the Modern Technical Communicator
Graduate Minor in computer engineering.

Baylor University Waco, TX
B.S.E.C.E., Electrical & Computer Engineering December 2011
Minors in mathematics and economics. Graduate of the Baylor Interdisciplinary Core honors program.
Dean's List (2007, 2010, 2011).

TEACHING POSITIONS

Adjunct Instructor, University of Central Florida Orlando, FL
"Server-Side Scripting" Fall 2019
Teaching course covering back-end web architecture and design patterns using PHP.

Graduate Teaching Assistant, University of Central Florida Orlando, FL
"Writing for the Technical Professional" Spring 2019, 2018, Fall 2017
Taught course covering professionalization for technical fields of study, emphasizing résumé and cover letter design, communication between experts and non-experts, proposal writing, and the design of technical reports.

Graduate Assistant for Web Development, Auburn University Auburn, AL
"Web Development" Spring 2013, 2014
Coordinated course logistics for Dr. Whittemore and Dr. Youngblood; course covered front-end web design, from HTML and CSS to basic JavaScript, culminating in a website design project for public clients. Assisted with in-class exercise guidance and tutoring. Aided students in scoping design projects and managing communications with clients. Held weekly office hours.

Instructor, National Instruments Austin, TX
“NI Hardware and Software Training” 2015–2016

Taught weeklong training seminars at customer sites across the country, as well as internal courses aimed at educating new engineers. Assisted customers with integration of course material into existing industry projects and workflow. Coordinated with sales team to address future hardware, software, and training needs. Courses taught include: Developing Applications with TestStand, Architecting Frameworks with TestStand, TestStand Core 1, TestStand Core 2, DIAdem Basics, DIAdem Advanced, CVI Core 1.

INDUSTRY POSITIONS

Applications Programmer, University of Central Florida 2019–Present

Currently serving as the web developer and general programmer for the history department's RICHES program. Responsible for maintenance of existing systems as well as design, testing, and deployment of the 2.0 phase of the RICHES Mosaic Interface project (built using PHP, the Laravel framework, and Vuex).

Web Developer, self-employed (see portfolio) 2016–Present

Developed websites using PHP- and Ruby-based frameworks. Managed client designs and expectations for fully-functioning e-commerce applications. Wrote marketing and other commercial material for customer websites.

Information Architect, Orange County Clerk of Courts 2018

Architected the internal KnowledgeBase (KB) system used by all OCCC employees. Wrote clear, concise, and effective documentation for 4 divisions based on a wide array of source materials. Consulted with Subject Matter Experts (SMEs) to ensure the accuracy of all content. Provided stylistic guidelines for other content writers based on professional editing standards.

Applications Engineer, National Instruments 2015–2016

Supported scientists and engineers using test and measurement hardware, such as cDAQ, cRIO, and PXI platforms as well as Serial, GPIB, CAN, I2C, and SPI communication protocols. Assisted in managing the institutional knowledgebase (KB) system as a Gatekeeper. Developed a LabVIEW and DIAdem demo for NIWeek 2015. Contributed to coworkers' technical development by teaching internal classes, presenting information on various technical topics, and serving as a technical expert for DIAdem, TestStand, Visual Studio/Measurement Studio, and CVI.

Web Developer, Auburn University Office of University Writing (see portfolio) 2014

Redesigned the OUW website to meet design standards and best practices. Streamlined the content management system to enable easy updates by non-technical staff. Wrote staff guides for independently updating web content.

Technical Writing Intern, Johnson Controls 2013

Edited quality standards documentation for automotive assembly processes. Researched quality assessment methods and procedures.

Field Engineering Intern, TexStar Midstream Services LP 2012

Assisted engineers in field operations throughout south Texas. Researched and compiled data on GIS software for potential company use.

Tutor, Paul L Foster Student Success Center

2010–2011

Tutored students in mathematics, physics, economics, engineering, English, and computer science courses. Worked with success center staff to develop new teaching pedagogies for struggling students.

RESEARCH POSITIONS

RICHS Web Design Intern, University of Central Florida

2018–2019

Designed a new interface for the Regional Initiative for Collecting the History, Experiences, and Stories (RICHS) of Central Florida’s Mosaic Interface project. Developed back-end architecture for the redesign. Augmented redesign with Digital Humanities research centered around remediation and interface concerns.

LUCIA Assistant, Auburn University

2013–2014

Managed the Lab for Usability, Communication, Interaction, and Accessibility (LUCIA). Developed a usability test plan for a comprehensive accessibility study. Recorded data for focus groups. Performed basic IT work in the lab.

IDEA Lab Assistant, Auburn University

2012–2013

Managed the Instruction in Design, Evaluation, and Accessibility (IDEA) lab. Conducted usability studies on websites. Assisted undergraduates with performing their own usability tests. Performed equipment demonstrations for university personnel.

Summer Researcher, Texas A&M

2011

Researched hardware sorting and hashing algorithms for microprocessor systems under the direction of Dr. Khatri.

COURSES PREPARED TO TEACH

Front-End Web Design, Web Design Workshop I, Web Design Workshop II, Server-Side Scripting, Client-Side Scripting, Tools for the Digital Humanities, Rapid Application Web Development, Design for Accessibility and Engagement, Writing for Digital Media, Physical Computing

ADDITIONAL TEACHING

Guest Lecturer, University of Central Florida

Orlando, FL

“*Server-Side Scripting*”

Fall 2018

Delivered guest lecture to Dr. Fanfarelli’s class covering the use of tools and frameworks such as git, gulp, and SASS in professional web design.

Guest Lecturer, University of Central Florida

Orlando, FL

“Rapid Application Development”

Fall 2018

Delivered guest lecture to Dr. Fanfarelli’s class covering unit, integration, and acceptance testing for web developers.

NOTABLE CREATIVE WORKS

Roll2o Dynamic Initiative Script

2017–Present

Designed and am further developing a JavaScript tool for managing a key roleplaying game statistic across a variety of game systems. Script is currently being alpha tested by gaming groups, and will be submitted to the official roll2o script repository upon release of version 1.0.

Tio Pelon's Salsita Website

2016–2018

Designed and administered the website for the award-winning San Antonio-based salsa company, Tio Pelon’s Salsita. Site design included HTML, CSS, JS, PHP, MySQL, and a Wordpress installation. Also managed the WooCommerce e-commerce extension and prepared the company for online ordering, billing, and shipping.

RPG Character Sheet and Scripts

2015–Present

Designed an HTML/CSS/JS form for use as a character sheet in the popular online tabletop gaming platform roll2o. Currently developing further updates to improve the functionality of this tool. This sheet is designed to support players of Fantasy Flight Games’ Warhammer 40k line of tabletop roleplaying games. Also designed a series of JavaScript tools to automate various computational tasks specific to the game system.

NI DIAdem/Fitbit Tracking Application

2015

Developed LabVIEW and DIAdem code designed to interact with the FitBit API; this software registered users and then periodically acquired their real-time fitbit data for graphical analysis in DIAdem. Coordinated a small team (myself and two others) for this project and maintained scheduled project deadlines with the marketing department. Demonstrated the fully functional tool in its own booth at the NIWeek Expo in August of 2015.

Auburn Office of University Writing Website

2014

Developed a new website for the OUW using PHP, HTML, CSS, and Javascript; this site was designed to be maintained and updated by nontechnical staff using the WordPress platform. Coordinated a small team (myself and two others) as well as set up content/design meetings with Auburn staff; the design process included design prototype presentations, concept sketches, wireframe mockups, WordPress template development, server configuration, and full-stack web development.

GRANTS AND FELLOWSHIPS

Presidential Doctoral Fellowship, University of Central Florida (\$80,000)

2017–2021

Fellowship for Technical and Professional Communication, Auburn University (\$1,000)

2012–2013

Undergraduate Summer Research Grant, Texas A&M (\$5,000)

2011

PRESENTATIONS AND DEMONSTRATIONS

“No Flag, No Country: the Procedural Rhetoric of Colonialism in Europa Universalis IV,”	
Computers and Writing	2019
“DIAdem and Fitbit,” National Instruments NIweek Expo	2016
“Hardware Accl. of Sort Ops. in a Modern Microprocessor,” TAMU Summer Research Colloquium	2011

TECHNICAL SKILLS

Programming Languages

Scripting: JavaScript (jQuery, NodeJS, Express, Sails), VBScript, PHP(Laravel, WordPress), Ruby(RoR)

Compiled: C# (ASP.NET MVC), C++

Embedded/Hardware: C, VHDL, Assembly(MIPS), LabVIEW, TestStand

Markup Languages

HTML, XML, CSS(LESS, SASS)

Database Environments and ORMs

MongoDB, MySQL/MariaDB (Eloquent)

Selected Tools

Git, Gulp, Grunt.js, eslint, Webpack, npm

Hardware

Communications: GPIB, Serial, CAN, I2C, SPI

Platforms: cRIO, cDAQ, PXI

Other: Xilinx FPGA

Software

Design & Usability: Adobe Photoshop, Adobe Premier, Morae

Development: Visual Studio(NI Measurement Studio), Visual Studio Code, LabWindows/CVI, NP++

Data Visualization: DIAdem, ArcGIS, D3

Computation: MATLAB, SPICE, LabVIEW, TestStand

Other: Windows OS, MS Office Suite

TECHNICAL CERTIFICATIONS

NI Certified LabVIEW Associate Developer (NI CLAD)	2015
NI Certified TestStand Developer (NI CTD)	2016