TEXAS STATE VITA

Please note: For all entries, list most recent items first. Headings without entries may be eliminated, but the heading lettering/numbering should remain consistent with this template.

I. Academic/Professional Background

A. Name: Mark W. Welker Title: Lecturer

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
PhD	Pred-2025	Texas State University	Developmental Education	Literature Utilization: Information retention of Senior Electrical Engineering students from Freshman and Sophomore level Electrical Engineering courses
MBA	2011	Florida International University	IT business management	
MSEE	2002	University of Texas at Austin	Computer Engineering	Thesis: "Improving the Human Computer Interface, a replacement for the Keyboard and Mouse"
BSEE	1987	Florida International University	Computer Engineering	

C. University Experience

Position	*University*	*Dates*
Lecturer	Texas State University	2018 - Present
Adjunct	University of Texas at Austin	2006 - 2008

D. Relevant Professional Experience

Position	Entity	*Dates*
Director, Performance and Analysis	Flex international	2015-2018

Director, Performance and Analysis	Dell, Inc.,	2009-2015
Senior Member Technical Staff, Client Analysis Manager	Advanced Micro Devices	1999-2009
Senior Member Technical Staff Research and Development	Compaq Computer Corporation	1990-1999

E. Other Professional Credentials (licensure, certification, etc.)

Patent Number	**Description**
10,031,916	Methods and Systems for virtualizing and managing cloud storage
10,013,228	System and Method for positioning an application window base…
9,779,089	Auto-Storing and synchronizing device content from an information handling system
9,619,299	Synchronization using device pairings with docking stations
9,524,139	Positioning an application window based on usage context for dual screen display device
9,224,133	Establishing interpersonal communication and system
6,686,913	Analog Conditioning circuitry or imagers for a display
6,570,546	Video Display Configuration Detector
6,525,733	Video Graphics Controller with High speed Line draw processor
6,323,854	Multi-tile video display system with distributed CRTC
6,308,248	Method and System for allocating memory space using mapping controller…
6,300,945	Analog conditioning circuitry for imagers for a display
6,076,139	Multi-media computer architecture with multi-channel concurrent memory access
6,037,951	Video graphics controller with improved calculation capabilities
5,892,929	Avoiding non-unique identifiers for bus devices
5,416,897	Video graphics controller with selectable pattern features for line draws.
5,517,646	Expansion device configuration system having two configurations…
5,613,054	Video graphics controller with improved calculation capabilities
5,613,053	Video graphics controller with automatic starting for line draws
5,598,579	System for transferring data between two buses …
5,812,876	DMA controller, which can be controlled by Host and Local Processors
US 20160125777	A1 Image Sticking Prevention Using an Information Handling System Webcam

US 20150348460	A1 Method and system for monitor brightness control using an ambient light sensor on a mobile device
US 20150373101	A1 Methods and systems for synchronizing data between two geographically disparate locations
US 20150373109	A1 Methods and systems for virtualizing and managing cloud storage sources
CA 2127369	Video graphics controller with improved pattern capabilities
5,978,858	Packet protocol and distributed burst engine
6,128,669	System having a bridge with distributed burst engine to decouple input/output task from a processor
US9990242B2	System and method for synchronization using device pairings with docking stations
US9921644B2	Information handling system non-linear user interface
US20160011754A1	Method and system for virtualized sensors in a multi-sensor environment
US9779089B2	Auto-storing and synchronizing device content from an information handling system

II. TEACHING

A. Teaching Honors and Awards:

University of Texas Teaching award of Honor: In recognition of exemplary service during the Covid-19 crisis in Spring 2020

B. Courses Taught:

University of Texas at Austin	EE 319k Introduction to Embedded Systems
Texas State University	EE 2420 - DIGITAL LOGIC EE 3420 - MICROPROCESSORS EE 4321 - DIG SYS DES U HDL EE 4352 - INTRO TO VLSI DES EE 4390 - EE DESIGN I EE 4391 - EE DESIGN II

D. Courses Prepared and Curriculum Development:

Texas State University	EE 4321 – Digital Systems Design Using HDL
Texas State University	EE 3420 Microprocessors

III. SCHOLARLY/CREATIVE

B. Works Not in Print:

1. Papers Presented at Professional Meetings:

Lawson, C. A., Lollar, J. E., Segovia, J. W., Taylor, M. Z., Killingbeck, M. D., Welker, M. W., Acee, T. W., Hodges, R. B., "Characteristics of Texas' Learning Frameworks courses: Honoring the Past, navigating the present, and imagining the future," Paper presented at the annual meeting of the College Academic Support Programs. Hosted virtually. (October 2021).

Welker, M. W., CASP 2021, "Characteristics of Texas' Learning Frameworks Courses: Honoring the Past, Navigating the Present, and Imagining the Future," CASP TX, Online, TX, United States. (October 18, 2021).
CASP_Attendance-1.png

Holschuh, J. P. (Principle Contributor.presenter), Welker, M. W. (Contributor /Presenter), Holschuh, D. R. (Contributor / Presenter), Bowers-Johnson, K. M.(Contributor / Presenter), Lawrence-Wallquist, A. C. (Contributor / Presenter),Gamage, D. A. (Contributor / Presenter), Mahdavivand Fard, S. (Contributor /Presenter), CRLA 2023, "Out with the old: Making Space for IntentionalUnlearning," College Reading and Learning Association, Hilton Baltimore InnerHArbor, Baltimore, MD, United States. (November 10, 2023).

CRLA_Conference_Sessions_2023-1.pdf

Welker, M. W. (Contributor/ presenter), Regalado, Y. M. (Contributor/ presenter),Summers, E. J. (Principle Contributor/ presenter), CRLA 2023, "The power of intent: Supplemental Instruction STEM and Diversity Inclusion.," College Reading and Learning Association, Hilton Baltimore Inner Harbor, Baltimore, MD, United States. (November 9, 2023).

5. Other Works not in Print:

b. Works "in progress":

Journal Articles:

Acee, T., Hodges, R. B., Segovia, J. W., Lollar, J. E., Taylor, M. Z., Welker, M. W., … Killingbeck, M. D. (In Preparation; Not Yet Submitted). Characteristics of Learning Frameworks Courses at Texas Public 4-Year Institutions.

IV. SERVICE

C. Community:

Habitat for humanity: building houses: 20 hours each year 2009-2015
GoodWill : Worked in Personal computing recover 24 hours a year 1999 – 2009

Updated 6/2012