

Tiffany

CORTEZ

STEM EDUCATOR

Profile Summary
STEM & Gender Equity Education Specialist and subject matter expert in engineering education, 3D modeling, 3D printing, architectural drafting and design, graphic design, competitive robotics.

WORK EXPERIENCE

ENGINEERING & GRAPHIC ART INSTRUCTOR | CTE DEPARTMENT HEAD | ROBOTICS PROGRAM DIRECTOR & COACH

Harmony School of Innovation - Waco 08/2011-Present

Instructor of grades 4-12 in Engineering, Technology, & Graphic Art. Coached teams that have competed in BEST Robotics, FTC & FRC. Took our FIRST Robotics Competition (FRC) team to the FIRST Robotics World Championship in 2015 and 2017. Nationally Sanctioned FIRST Lego League Qualifier Coordinator - hosted event in Waco 2014-2020. National Honor & National Junior Honor Society Advisor. SWENext Advisor - STEAM Club for High School females.

SUBJECT MATTER EXPERT | CURRICULUM DESIGNER

Learning Mate 06/2022-Present

Designing curriculum for high school 3D modeling courses for www.learningmate.com to implement for high school online learning.

GAME MODERATOR AND TECHNICAL ADVISOR

NASA High School Aerospace Program 4/22-Present

Moderating and facilitating program participation, interactions between high school team members, groups, and NASA engineers. Evaluating participants' work.

MASTER TEACHER

Project Lead the Way 06/2019-Present

Instructing teachers to implement Project Lead the Way curriculum in their own classrooms. PLTW Gateway Design and Modeling (DM) Curriculum

ADJUNCT PROFESSOR OF INTERIOR DESIGN

Baylor University 01/2019-Present

Instructing Interior Design students in ID 3322 Computer Aided Drafting and Design II, which focuses on the Autodesk Revit 3D modeling architecture software.

ROBOTICS AND 3D PRINTING/MODELING INSTRUCTOR

Texas A&M University, AggieSTEM 07/2014-07/2019

instructing both students and teachers in 3D Printing and Modeling and Robotics. In-person and online. I have developed my own curriculum using AggieSTEM's PBL format.

STEM INSTRUCTOR

Education Service Center R12 Summer 2019

Instructing Upward Bound students with STEM Project-Based Learning (PBL) projects.

ENGINEERING AND DRAFTING & DESIGN INSTRUCTOR

ITT Technical Institute, Waco, TX 10/2011-10/2016

Instructing college students in Autodesk and Adobe software. Courses taught included: AutoCAD, Inventor, 3DS Max, Civil 3D, Illustrator, Photoshop, Hand Drafting, Capstone final project course

ARCHITECTURE & CONSTRUCTION TEACHER, DRILL TEAM DIRECTOR

University High School, Waco ISD 08/2010-06/2011

Covered basic math, shop safety, blueprints, hand and machine tools, teamwork, drafting, orthographic drawings, communication, model building and many other architecture & construction topics. Dance Team Director - built a team of 16 from scratch, developing a constitution for team, scheduled programs and activities to prepare dancers for the 2011-2012 year, taught dance and technique.

3D MODELER, DRAFTER/DETAILER - ENGINEERING DEPARTMENT

Central Texas Iron Works, Waco, TX 01/2007-08/2010

Creating, detailing, and editing building plans in drafting program SDS/2 and computer aided drawing program Corel. Working in teams to meet deadlines for various projects. Creating shop reports for the machinery throughout the steel plant. Interacting with companies throughout the world on projects. Putting together full sets of building plans for projects

CERTIFICATES

TEXAS TEACHING CERTIFICATION

Industrial Occupations

PROJECT LEAD THE WAY

IED, POE, CEA, Gateway: DM, AR, GA, Master Teacher

ENGINEERING BY DESIGN

ENGINEER YOUR WORLD

INFINITY PROJECT



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EDUCATION

EDUCATIONAL DOCTORATE (ED.D.) (IN PROGRESS)

Texas A&M University, College Station 01/2020-Present
Currently working on a Doctorate in Education with a focus on curriculum and instruction. My research is centered on increasing female interest in engineering and computer science.

MASTER'S DEGREE (M.ED.) IN EDUCATION

Texas A&M University, College Station 01/2016-05/2018
My studies were centered around STEM education curriculum and instruction and increasing female interest in engineering and computer science.

TEACHER CERTIFICATION

McLennan Community College 01/2010-06/2011
I earned my alternative teaching certification from MCC. I am certified to teach Industrial Occupations.

BACHELOR'S DEGREE IN INDUSTRIAL OCCUPATIONS

Tarleton State University 08/2007-12/2009
My studies were centered around Engineering Technology.

ASSOCIATE'S DEGREE IN ARCHITECTURAL DRAFTING & DESIGN

Texas State Technical College 01/2003-08/2007

INTERIOR DESIGN MAJOR

Baylor University 08/1998-06/2001

SKILLS

AUTODESK

AutoCAD, Revit, Inventor, Fusion 360, 3DS Max, Civil 3D, TinkerCAD, Sketchup

ADOBE

Illustrator, Photoshop, Indesign

3D PRINTING

Makerbot, Lulzbot, Dremel, XYZ, etc...

BLENDER

GOOGLE SUITE

CANVA

GRANT WRITING

SDS/2

MICROSOFT OFFICE

CURRICULUM DESIGN

CNC MACHINING

PROJECT MANAGEMENT

EVENT PLANNING

PROBLEM SOLVING

GRAPHIC DESIGN

ROBOTICS

LASER CUTTING

PUBLIC SPEAKING

AWARDS

DISTRICT SECONDARY TEACHER OF THE YEAR

Harmony Public Schools 2020

SECONDARY TEACHER OF THE YEAR

Harmony School of Innovation - Waco 2020

LIFECHANGER OF THE YEAR AWARD NOMINEE

National Life Group 2019, 2018

EXCEPTIONAL ACHIEVEMENT AWARD

Harmony Public Schools 03/2019

EXCELLENCE IN EDUCATION AWARD - SEMI-FINALIST

H-E-B 2020, 2018

WOODIE FLOWERS AWARD FINALIST - BRAZOS VALLEY REGIONAL

FIRST Robotics 03/2017

TEACHER OF THE YEAR FINALIST

TCEA 02/2016

STUDENT CHOICE AWARD

Educator's Credit Union 01/2016

TEACHER OF THE YEAR FINALIST

ESC Region 12 12/2015

STEM EDUCATOR OF THE YEAR

TX STEM Education Week 05/2015

SECONDARY TEACHER OF THE YEAR

Harmony Science Academy - Waco 2015

ASSOCIATIONS

KDP, TCEA, ASEE, WEPAN, SWE

VOLUNTEER WORK

AMERICAN CANCER SOCIETY EVENT CHAIR, MUSCULAR DYSTROPHY ASSOCIATION ONLINE EVENT CHAIR, NATIONAL GIRLS COLLABORATIVE PROJECT REGIONAL LEADERSHIP TEAM



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