

Tiffany Davis
Curriculum Vitae

Professor of Practice
Missouri Western State University

8/2023 - Present

Duties, Accomplishments and Related Skills:

Currently teach Construction Materials, Construction Management, Estimating, Statics, Engineering Statics, Construction Methods and Equipment, Financial Aspects of Engineering, Fluids and Hydraulics, and Contract Administration. Previously taught Mechanics of Materials and Surveying. Proficient in utilization of all classroom aides, and building student materials textbooks, publisher provided content, and researching different source information to combine into lecture and lab presentation. Also act as a liaison with industry partners to enhance student learning through guest lecturers and field trip opportunities. Mentoring students, including advising, of all academic levels. Provide industry engagement and increase direct involvement with our industry partners. Develop new courses and update current courses to include new technology, such as BIM and using drones. Member of the Undergraduate Curriculum Committee and charter member of the Peer Observation Committee.

Flight Engineer
Missouri Air National Guard

6/2018 - Present

Duties, Accomplishments and Related Skills:

Onboard systems expert for the C130H aircraft. Perform preflight inspections to determine mission acceptability of aircraft. Work closely with maintenance, when available, or perform maintenance activity to ensure safety of flight. Onboard, operate and trouble shoot all engines, propellers, hydraulics, pneumatics, and electrical systems.

Responsible for trouble shooting and satisfactorily resolving any airborne malfunctions, including but not limited to those involving safety of flight which require strict emergency procedures to prevent loss or damage to aircraft and personnel.

Review, update, and maintain forms for both maintenance and aircrew. Liaison with maintenance both at home station and deployed.

Maintain individual deployment readiness, including physical fitness, recurrent training, and mission specific training. As well as maintain currency and proficiency in all aspects of tactical flight requirements.

Manufacturing Process Engineer
Summit Truck Bodies

4/2022 – 7/2023

Duties, Accomplishments and Related Skills:

Collaborate with production and engineering to evaluate process flow. Monitor manufacturing processes including assembly, paint, and welding. Create/author work instructions and update drawings. Refine and optimize manufacturing methods along with work cell layouts. Oversee time motion studies. Oversee work analysis and work design. Continually work to recommend and implement positive changes throughout the organization. Use experience as a positive force to mentor others in the organization. Help educate and train staff. Work within ISO and 5S programs. Utilize knowledge of hydraulics and electronics. Strong work ethic, attention to detail and a focus on exceptional customer service. Work independently and with a wide variety of groups, both within and outside the company. Excellent written and verbal communication skills.

Unit Education and Training Manager
Missouri Air National Guard

6/2015 - 6/2018

Duties, Accomplishments and Related Skills:

Responsible for job duty and deployment training requirements for 90 members of the 241st Air Traffic Control Squadron.

Maintain, update, and progress training standards in all sections of the squadron, including administration, radar maintenance, airfield systems, air traffic controllers, and HVAC.

Estimator
Herzog Technologies Inc.

6/2015 - 6/2018

Duties, Accomplishments and Related Skills:

Research job bid opportunities for both government and civilian procurements. Secure, review, and evaluate all relevant information of a project including any technical requirements or plans, minority business requirements, timeline, community partners, and cost considerations.

Work independently on small projects, or with a team on large projects to develop a complete bid submittal for the project.

Upon award of the project, work closely with the project manager, assistant project managers, subcontractors, local government, community partners, and business partners to ensure completion of the project within budget and on time. Work with awarding agency for any relevant change orders required due to modifications of the project.

Maintain data on all aspects of the project, including costs, subcontractor performance, material escalation, employee hours, delays, change orders, and anything else impacting the final cost and time of the project.

Visit and collaborate with project manager and other worksite managers.

Analyze and determine the progress of the project, continuously as well as during key milestones. Utilize this information to determine next course of action on current project, and lessons learned to other and future projects.

After completion of project do a thorough review of the project, either independently on small projects, or in a group on larger projects.

Worked on projects ranging from \$500,000 to \$2.3 billion.

Graduate Teaching Assistant
Missouri Western State University

8/2016 - 5/2018

Duties, Accomplishments and Related Skills:

Taught Statics, Engineering Statics, Lecture and Lab Electrical Installation, and Lab Mechanics of Materials. Proficient in utilization of all classroom aides, and building student materials textbooks, publisher provided content, and researching different source information to combine into lecture and lab presentation.

Air Traffic Controller
Missouri Air National Guard

12/2007 - 6/2015

Duties, Accomplishments and Related Skills:

Control, separate, and maintain safe flight for military and civilian aircraft traversing approximately a 1600 square mile area, including five airports located within controlled airspace.

Vector and maintain safe vertical and horizontal separation of aircraft and coordinate with adjoining facilities, including two large control centers and two controlled towers at a commercial and municipal joint use airport.

Education:

Missouri Western State University St Joseph, MO United States

Master's degree 5 / 2018

Major: Master of Applied Science - Engineering Technology Management

Missouri Western State University St Joseph, MO United States

Bachelor's degree 5 / 2016

Major: Bachelor of Science - Construction Engineering Technology Honors: Magna Cum Laude

Community College of the Air Force Montgomery, AL United States

Associate's degree in Education and Training Management 10 / 2018

Community College of the Air Force Montgomery, AL United States

Associate's degree in Airway Science 10 / 2012

Metropolitan Community College Kansas City, MO United States

Associate's degree 5 / 2011

Relevant Coursework, Licenses and Certifications:

Graduated with High Honors Kappa Mu Epsilon