

Sam Jackson

sam.jackson@tamuct.edu

Education

Master of Science in Mathematics A&M Central Texas University	Jan 2016 – Dec 2017 Killeen, Texas, United States
Master of Science in Industrial Engineering St. Mary's University	Jan 2011 – May 2012 San Antonio, Texas, United States
Bachelor of Science in Mechanical Engineering University of Technology	2000 – 2004 Baghdad, Iraq
I have 24 credits hours from master in nondestructive evaluation and testing technology The Hashemite University	2006 - 2008 Zarqa, Jordan
I have level 1 and level 2 in nondestructive testing NDT Consultancy services Inc.	2009 Houston, Texas, United states
Certificate of Proficiency in computing and computer software University of Technology	2003 Baghdad, Iraq

Work Experience

Engineer assistant, June 2002 – June 2004 Al Wissam Company , Baghdad, Iraq Applying engineers designs for different projects.	
Engineer , June 2004 – June 2008 Al Wissam Company , Baghdad, Iraq and Amman, Jordan Working as an engineer for different kinds of projects like building and design schools, hospitals and houses.	
Graduate assistant , January 2011 – May 2012 St. Mary's University , San Antonio, Texas, U.S. Assisting the professor	
Member in Learning Assistance Center , February 2011- May 2012 St. Mary's University , San Antonio, Texas, U.S. Tutoring the students	
Program assistance in PREP (pre freshman engineering program) , summer 2011 University of Texas San Antonio (UTSA) , San Antonio, Texas.	
Instructor in PREP (pre freshman engineering program) , summer 2012 University of Texas San Antonio (UTSA) , San Antonio, Texas.	
Instructor in the Mathematics and Engineering Department , January 2013 – present Central Texas College , Killeen, Texas, U.S	
Math Resource Coordinator in Mathematics and Engineering Department Central Texas College , Killeen, Texas, U.S	August 2014 – January 2017
Adjunct Faculty Texas A&M University Central Texas , Killeen, Texas, U.S.	2019 – Present
Engineering Program Coordinator Central Texas College , Killeen, Texas, U.S	January 2015 – Present

Aiding in curriculum development by updating syllabuses and courses according to the institution's principles, hiring the proper staff required for the program, and facilitated communication between the students and the faculty of engineering program.

Drafting and Design Program Coordinator
Central Texas College, Killeen, Texas, U.S

September 2018 – Present

Aiding in curriculum development by updating syllabuses and courses according to the institution's principles, hiring the proper staff required for the program, and facilitated communication between the students and the faculty of drafting and design program.

Robotics Program Coordinator
Central Texas College, Killeen, Texas, U.S

September 2021 – Present

Aiding in curriculum development by updating syllabuses and courses according to the institution's principles, hiring the proper staff required for the program, and facilitated communication between the students and the faculty of Robotics program.

Summary of Skills

- Proficient in Microsoft Office Programs such as Word, PowerPoint, Excel, and Outlook, as well as other software programs such as Adobe Acrobat, Adobe Illustrator and engineering programs such as Promodel, Vensim and more and I am proficient in advanced mathematics software and other computer programs.
- Outstanding capability to solve complex issues and ability to document and maintain records.
- Excellent team leader as well as a follower, but also capable of working independently to organize, structure, and execute the necessary steps to accomplish any project's objectives with tied deadlines.
- Solid experience of process analysis, strong business process documentation, process modeling, and flowcharting.
- Excellent verbal and written communication skills. Able to maintain high level of confidentiality and responsibility.

Thesis

My thesis was focused on the effect of 3-D printing on the teachings of mathematics, using 3-D printers as an innovative tool in the classroom to teach mathematics. By approaching mathematical problems in a different way, the modern concept of 3-D printing would be used to create manipulatives that can help the average learner solve said mathematical problems. By conducting an experiment where I compared the level of understanding when it comes to not using the manipulatives created in the 3-D printer versus the level of understanding of students that used 3-D printers to make manipulatives that helped them in solving problems, I found that 3-D printers will be an essential assets in the classroom of tomorrow.

Classes taught

MATH 3332 Linear Algebra
MATH 1314 College Algebra
MATH 1414 College Algebra (For STEM Major)
MATH 1332 Contemporary Mathematics
ENGR 1201 Introduction to Engineering
ENGR 2301 Statics
ENGR 2302 Dynamics
ENGR 2305 Electrical Circuits
ENGR 2332 Mechanics of Materials
ENGR 1304 Engineering Graphics I
ENGT 3311 Fluid Mechanics
ENGT 3312 Heat Transfer
ENGT 3302 Manufacturing Processes

ENGT 4421 Solid Modeling
ENGT 4422 Electrical Power and Controls
DFTG 1405 Technical Drafting
DFTG 1417 Arch Drafting Residential
DFTG 2412 Technical Illustration
DFTG 2438 Final Project Advanced Drafting
DFTG 2440 Solid Modeling/ Design
DFTG 2402 Machine Drafting