

Dr. Tgarid Ali

Dearborn Heights, MI 48127

313-414-0396

tgarida@gmail.com

PROFESSIONAL SUMMARY

STEM EDUCATOR / Engineering (Civil Engineer):

Dedicated to teaching mathematics (Algebra, Geometry, Statistics, Calculus) across diverse educational levels, from elementary to university. My expertise includes practical applications in construction projects, Experimental Design, Regression Analysis, Capital Budgeting, Cost Analysis, Deterministic Methods in Operations Research, Product and Research Development, Production/Operations Management, Advanced Simulation Modeling, Descriptive Statistics, Project Management, Supply Chain Management, Human Factors Engineering, Applied Predictive Models, Data Analysis, Applied Data Mining, Nonparametric Statistical Methods, Decision Tree, and Predictive Analytics.

As a student-centered Professor with a proven 5-year background, I excel in supporting students, developing instructional plans, and organizing exams. I maintain an effective learning environment through meticulously prepared classes and assignments, consistently achieving classroom management and academic goals. Recognized for fostering engagement and learning.

An inspiring Professor with advanced teaching skills and departmental leadership experience, I am goal-oriented in advancing departments, enhancing teaching methods, and modernizing courses. Extensive background in research and university fundraising, poised to make significant contributions to academic and research endeavors.

SKILLS

- Blackboard
- Moodle
- Canvas
- MATLAB
- Minitab
- AutoCAD
- SPSS
- Microsoft Project
- Data collection
- Microsoft Office
- Critical thinking
- Detail oriented

WORK HISTORY

PROFESSOR

Trine University, Hybrid/Online | Detroit, MI

10/2022 to CURRENT

- Project Management course developer and instructor
- Teaching International students project management courses for grad students and assisting them in overcoming any obstacles in their academic journey, providing recommendations, support, and assistance.

- Reviewing and updating the syllabus, and posting it on the course page in a timely manner.
- Prepare and update students assignments on Moodle to align with the syllabus content.
- Post weekly announcements on Moodle to remind students of their weekly tasks and deadlines.
- Send weekly emails to students that include their weekly assignments.
- Encourage student participation in weekly discussions and enrich dialogue to encourage students to express their opinions and ideas.
- Evaluate course projects and provide students with feedback to correct their mistakes and improve their projects.
- Post grades for weekly assignments and give students opportunities to discuss them.
- Meet with students in person and motivate students to participate and incorporate fun learning activities.
- Respond to student emails and resolve their issues in the best and fastest way possible.

PROFESSOR

08/2021 to 12/2022

University of Detroit Mercy

- Encourage class discussions by building discussions into lessons, actively soliciting input, asking open-ended questions and using techniques to track student participation.
- Prepare and present presentations including videos, audios, and other motivated methods.
- Used a variety of learning modalities and support materials to facilitate the learning process and accentuate presentations.
- Developed and taught undergraduate courses required by the mathematics department.
- Publish assignments and the online quizzes on Blackboard.
- Use Blackboard to take attendance and post grades.
- Utilize Blackboard to evaluate assignments and provide students with feedback.

MATH INSTRUCTOR AND MENTOR

01/2021 to CURRENT

Westfield Preparatory High School

- Observe and conduct meetings with mentees and support them
- Prepare high-quality lessons to teach students step-by-step problem-solving methods for math courses.
- Teach up to 100 students per semester how to set up and solve math problems.
- Create course syllabus to clearly communicate expectations and standards for student success.
- Communicate with students, parents, and school administrations to improve students' performances in math.
- Attend all meetings and professional developments.
- Advise students to plan for the upcoming school year.

LAND SURVEY CAD DRAFTER

01/2021 to CURRENT

Louis Cantor Company

- Create, print and modify drawings in AutoCAD.
- Used computer-aided design software to prepare blueprints.

- Perform accurate survey calculations and drafting from field survey notes, record information and instruction from Professional Land Surveyor.
- Prepare basic boundary surveys and location drawings and other types of residential survey mapping drawings in a timely, accurate and complete manner.

PRINCIPAL

09/2018 to 09/2020

Al Furqan Academy

- Oversaw schedule management and protocols for orientation, registration and related activities.
- Trained teachers on effective teaching techniques, classroom management strategies and behavior modification.
- Cultivated positive relationships between community members, school students and teachers.
- Mentored newly hired educators and provided encouragement and feedback.
- Communicate with the Michigan Department of Education to register the school and benefit from different titles.

TEACHING ASSISTANT

01/2011 to 05/2018

University of Detroit Mercy

- Construction project data collection for doctoral dissertation
- The Detroit regional transit study at University of Detroit Mercy (UDM) research assistance
- Pavement design and management, individual project at the University of Detroit Mercy (UDM)

RESEARCHER ENGINEER

09/2002 to 12/2005

Budapest University

- Highway Planning, Urban environmental protection, Sanitary engineering, Deep excavation, Design of public work
- Urban transport planning, Water supply, Sewerage-Sewage, Railroad planning, Pile foundation
- Flood control and drainage, Complex city planning, Informatics in Transportation and Ground improvement

EDUCATION

- **Doctoral** | Engineering *07/31/2018*
University of Detroit Mercy, Detroit, Michigan
- **M.Sc.** | Transportation Engineering *04/29/2014*
Wayne State University, Detroit, Michigan
- **M.Sc.** | Infrastructure and Environmental Engineering *09/28/2005*
Budapest University of Technology And Economics, Budapest, Hungary