

Ali Ansari

 ali.ansari@tamu.edu

 www.linkedin.com/in/aliansari2001

Education

- **Ph.D. in Mechanical Engineering, J. Mike Walker '66 Department of Mechanical Engineering, Texas A&M University** (Fall. 2024)
- **B.Sc. in Mechanical Engineering**, Department of Mechanical Engineering, *Sharif University of Technology*, Tehran, Iran. (Sep. 2019 – Feb 2024 - **GPA:3.8/4.00**)
 - ❖ **THESIS**: Restoring a **CNC Machine**, Developing a Translator to Process Standard G-Codes, & Design & Manufacturing a Prototype **Pressing Die** ([Prof. Assempour](#))
- **TOEFL Score:112 /120** (Reading:29, Listening:29, Speaking:27, Writing:27)

Fields of Interest

- ❖ Computational Material Science
- ❖ Material Characterization and Analysis
- ❖ Solid Mechanics

Academic & Practical Experience

Research Experience

- | | |
|---|----------------------------|
| • <u>Research Assistant</u> , “CISE Group,” Prof. Gao | Spring 2025 - Now |
| • <u>Research Assistant</u> , “Composite Materials Lab,” Prof. Fallah | Summer & Fall 2023 |
| • <u>Workshop Assistant</u> , “Sharif 3D Center,” Prof. Mohammadi | Summer & Fall 2023 |
| • <u>Research Assistant</u> , “Manufacturing Processes Lab,” Prof. Assempour | Spring through Winter 2023 |
| • <u>Summer Intern</u> , “Novin Ham Sepehr Co.”, Reverse Engineering | Summer 2022 |
| • <u>Research Intern</u> , “Djavad Mowafaghian Research Center for Intelligent Neurorehabilitation Technologies,” Rehabilitation & Biomechanical Research | Summer 2022 |

Teaching Experience

- | | |
|---|-------------------------|
| • <u>Teaching Assistant</u> , “MEEN 368,” Prof. Zhou and Prof. Zubaer | Fall 2024 – Spring 2025 |
| • <u>Teaching Assistant</u> , “MEEN 221,” Prof. McVay | Summer 2025 |
| • <u>Teaching Assistant</u> , “Computer-Aided Design,” Prof. Assempour | Fall 2023 |
| • <u>Teaching Assistant</u> , “Applied Finite Element,” Prof. Naghdabadi | Fall 2023 |
| • <u>Teaching Assistant</u> , “Strength of Material I,” Prof. Fallah | Fall 2023 |
| • <u>Grader</u> , “Dynamics”, Prof. Zohoor | Fall 2022 |
| • <u>Teaching Assistant</u> , “Strength of Material I,” Prof. Asghari | Fall 2021 |
| • <u>Teaching Assistant</u> , “Fundamentals of C Programming language” | Fall 2020 |

Highlighted Skills

CAD/CAM/CAE	• SolidWorks, Abaqus, Catia, Ultimaker Cura
Machine Operation	• CNC Milling Machine, FDM 3D Printer, Oxyacetylene & Shielded Metal Arc Welding Equipment
Programming language	• MATLAB (SIMULINK & etc.), C/C++, Arduino, EES, CATT3
General	• Machine Learning, Microsoft Office, CAMTASIA, Adobe Illustrator, WordPress, LaTeX • Soft: Teaching, Communication, Management & Teamwork

Honors

• Accepted in Direct SUT Mechanical Engineering Master's Program	April 2023
• Nominated for participating in Mechanical Engineering Olympiad	April 2023
• Ranked 117 out of 120,000 Participants in the Nationwide University Entrance Exam & Accepted into the #1 University in Iran with a Fully Funded Scholarship	Sep. 2019
• Silver Medalist of the Inter-Departmental SUT Volleyball Tournament	Fall 2019

Course Projects

• Stress & Strain Analysis of a Moving Tire on the Road in Abaqus	FEM
• Designing a Functional and Standard Pressing Die in SolidWorks	Pressing Dies
• Product Design & Development of RF Ablation Apparatus	PDD
• Designing a Gearbox of a Crane (Shafts, Gears, Bearings, etc.)	Machine Design
• Simulation of a Moving Mechanical Manipulator	Machine Dynamics
• Data Collecting & Neural Network Training to Treat Parkinson's Cases	Internship

Selected Courses

- ✓ University Courses: MEEN 603, 686, 688, 607, 608, 657 - Machine Design I, II - CAD - Engineering Graphics - Applied Finite Elements - Press Working Dies - Composite Materials - Reverse Engineering - Machine Maintenance - Product Design & Development
- ✓ Workshops: Supervised Machine Learning - Abaqus – MATLAB – Advanced SolidWorks – 3D Printing Manufacturing & Design – Simulink