## Ali Mohaghegh

GENERAL INFORMATION	<b>Email:</b> • ali.mohaghegh@ku.edu • mohaghegh.ali76@gmail.com <b>Phone:</b> +1 785 320 81 66 <b>Place of Residence:</b> Lawrence, KS	
EDUCATION	<ul> <li>University of Kansas</li> <li>Ph.D. in Aerospace Engineering</li> <li>Cumulative GPA: 4.0 / 4.00</li> </ul>	Jan 2023 – Present
	<ul> <li>Middle East Technical University</li> <li>B.Sc. in Aerospace Engineering</li> <li>Graduated as the second-ranking-student in the department</li> <li>Cumulative GPA: 3.5 / 4.00</li> </ul>	Feb 2017 – Jul 2021
	Meshkat High School	Sep 2012 – Jun 2015
	<ul> <li>Mathematics and Physics</li> <li>Cumulative GPA: 19.36 / 20</li> </ul>	
EXPERIENCE	<b>University of Kansas</b> Graduate Research Assistant	Jan 2023 – Present
	<ul> <li>Developing Data-Driven and Reduced-Order Models (ROM) for complex fluid physics used in aerospace propulsion applications.</li> <li>Exploring high-quality ROMs to enable efficient and accurate predictions of flow physics in complex engineering systems in collaboration with the Air Force-funded Center of Excellence (CoE) on Multi-Fidelity Modeling of Rocket Combustion Dynamics.</li> </ul>	
	<ul> <li>BAYKAR (Bayraktar) Defence Feb 2022 – Jan 2023</li> <li>Aerospace Engineer</li> <li>Performing general performance analysis of UAV and unmanned fighter jets.</li> <li>Conceptual and Detail design of world's first unmanned jet fighter Bayraktar Kizilelma.</li> <li>Development of aircraft performance analysis methods and software.</li> <li>Preparation of Bayrakter Kizilelma aircraft performance documents.</li> </ul>	
	<ul><li><b>AEROSAV</b></li><li>Long-Term Internship</li><li>Functioning as performance analysis engineer and turbo-machinery comporturbine engine.</li></ul>	May 2021 – Dec 2021 onents designer of a mini gas
	<ul> <li>Middle East Technical University</li> <li>Academic Assistantship (Part-Time Paid Employment)</li> <li>Carrying out laboratory experiments, recitation hours, assisting students w projects, and grading quizzes, assignments and proctoring exams.</li> </ul>	Sep 2020 – Jul 2021 with class exercises and term
	<ul> <li>AIAA Gas Turbine Engine Design Competition</li> <li>Technical Project</li> <li>Awarded as second best proposed gas turbine engine design in the world to be a second best proposed gas turbine engine design in the world to be a second be second be a s</li></ul>	Sep 2020 – Aug 2021 be used on Concorde aircraft.
	ATA Airlines Maintenance Center Technical Internship	Jun 2020 – Sep 2020

• Has worked as Trainee at NDT (Non-Destructive Test) Facility and Wheel and Brake Shop. Observed heavy and periodic checks on MD 80 series, Boeing 737 and Airbus 320 aircraft.

Sep 2018 – Jul 2021

EUROAVIA

Leadership

• Has worked as board member and the head of audit committee at Aerospace Student Association which is EUROAVIA's student branch at METU campus. Also, Has Organized "Aero-Days" Seminar Series at University.

SKILLS & TECHNOLOGY	<ul> <li>Programming: C/C++, Python, MATLAB, LaTeX</li> <li>Applications: ANSYS/Fluent, GasTurb, AxStream, CFturbo, Autodesk Inventor, CATIA, OpenFoam, MSC Apex, AutoCAD Mechanical, SU2, Gmsh</li> </ul>	
AWARDS & SCHOLARSHIPS	<ul> <li>Awarded as second best proposed engine design in the world at AIAA 2021 engine design competition</li> <li>Awarded 75% tuition waiver at undergraduate studies</li> <li>Chosen as High Honor Student (5 times) at Middle East Technical University</li> <li>Selected as the best peer guide of "First Year Student on Campus" program</li> <li>Chosen as top ethical and pedagogical student at high school at 2014</li> </ul>	
LANGUAGES	<ul> <li>Persian: Native Language</li> <li>Azerbaijani: Native Language</li> <li>English: Fluent</li> <li>Turkish: Advanced</li> </ul>	
PROJECTS	<ul> <li>Aircraft Design         <ul> <li>A group project in which a subsonic 50 passenger aircraft with range of flying Paris to New York non-stop was designed in the scope of Aeronautical Engineering Design course. I was responsible for weight estimation, CAD drawing, engine selection, thrust-to weight and wing loading estimations airfoil selection, wing geometry, mission profile, high lift devices, conceptual design dimensions, interna components arrangement, tail arrangement and performance analysis along with 4 other group members <b>NASA X-33</b> <ul></ul></li></ul></li></ul>	
MEMBERSHIP	<ul> <li>Member of AIAA (American Institute of Aeronautics and Astronautics)</li> </ul>	2018 – present
	<ul> <li>Member of EURAVIA (European Association of Aerospace)</li> </ul>	2019 – present
	<ul> <li>Member of METU NCC Aerospace Students Club</li> </ul>	2018 - 2021
	<ul> <li>Member of METU NCC Community Volunteer Club</li> </ul>	2019 - 2021
REFERENCES	References can be provided upon request.	

[Curriculum vitae compiled on Feb 2023]