

Muhammed Yasin Peker

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Innovative Astronautical Engineer offering passion for participating in product design projects. Excellent communicator with ability to explain complex design ideas and concepts effectively. Interested in investigation of space environment, space mission design, system integration, installation and commissioning for spacecraft systems. Quick-learning and resourceful with proficiency in 3D modelling and data analysis.

Skill Highlights

- 2D-3D Modelling
- Data Analysis
- Academic English, IELTS: 7.0 (2024)
- Computer Skills;

CATIA

Solidworks

LibreCAD

Wings3D

Microsoft Office Programs

C# Programming Language

Wolfram Mathematica

MATLAB



Work Experience

- **R&D Department Intern** - from 06/2019 to 07/2019
at **Totomak Industry and Trade Inc.**, İzmir/Turkey

Working in various departments such as production, R&D office-field and quality control under the supervision of engineers and technicians in an automotive factory.

- **Additive Manufacturing Intern** - from 01/2022 to 02/2022
at **Artuk Aviation Defence Industry and Trade Co. Ltd.**, Afyonkarahisar/Turkey

Working with EOSM 290 additive manufacturing machine for production of titanium made aviation and medical parts as well as support and topology studies before the production process.

- **Research Assistant** - from 04/2023 to present
at **Eskişehir Osmangazi University, Aeronautical Engineering Department**, Eskişehir/Turkey

Conducting experiments in radioactivity laboratory in accordance with master's thesis, assisting lecturers in bachelor's courses, department disciplinary committee membership, exam invigilations, and preparation of exam and course schedules.

Education

2015-2022	Bachelor of Science in Aeronautical Engineering, Istanbul Technical University , Istanbul/Turkey (2.65/4.00 GPA) (Graduation Thesis, <i>“Design of a Manned Mars Mission”</i>)
2020-2023	Bachelor of Science in History, Anadolu University , Eskişehir/Turkey (2.65/4.00 GPA)
2022-2024	Master of Science in Aeronautical Engineering, Necmettin Erbakan University , Konya/Turkey (91.25/100 GPA) (Master’s Thesis, <i>“Neutron and Gamma Radiation Shielding with Carbon Nanotube and Boron Nitride Reinforced Carbon/Epoxy Nanocomposites for Space Applications”</i>)
2024	ERASMUS Staff Mobility for Training in Institut Polytechnique des Sciences Avancées , Paris/France
2025	ERASMUS Staff Mobility for Training in Universitatea Politehnica din București , Bucharest/Romania


Research Interests

Space Environment, Upper Atmosphere Physics, Space Radiation, Spacecraft System Design, Space Mission Analysis, Additive Manufacturing, Composite Materials.

Publications in International Platforms

- *“Investigation of Earth’s Bow Shock Characteristic Using Data Retrieved from THEMIS C Spacecraft”* – Conference Paper, *10th International Conference on Recent Advances in Air and Space Technologies*, Istanbul, Turkey (2023)
- *“Composite Materials for Space Radiation Shielding: A Review”* – Conference Paper, *International Symposium on Aircraft Technology, MRO & Operations*, Ha-Noi, Vietnam (2023)
- *“Gamma-ray and Neutron Attenuation of Carbon Fiber/Epoxy Composites with Carbon Nanotube and Boron Nitride Nanoparticles for Passive Shielding Applications in Space”* – Research Article, *Polymer Composites*, (2024)

Languages

English	
Russian	
German	
Ottoman Turkish (1500 – 1928)	

Hobbies

- Medieval Europe and Middle East history research – reading.
- Playing guitar, piano and composing.
- Playing hardcourt tennis.
- Astronomy, observation of sky.