Kamil FERATOĞLU

Mechanical Engineer

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Skilled Researcher enthusiastic about supporting advancements in Additive Manufacturing and 3D printing. Passionate about increasing knowledge to drive growth and needed improvements. Ready to apply knowledge and 6 years of experience in research.

⚙️ Technical Profile

- Expertise in additive manufacturing, with a focus on Fused Deposition Modeling (FDM) technology.
- Extensive experience in 3D printing of nanocomposite polymers and the manufacturing of filaments for use in FDM.
- Proficient in the wear and mechanical characterization of FDM-printed materials, including the analysis of tribological properties.
- Skilled in predicting the mechanical behavior of 3D-printed materials using Artificial Neural Network (ANN) methods.
- Knowledgeable in the identification and analysis of tensile behavior, viscoelasticity, and viscoplasticity of polymers, specifically Polylactic Acid (PLA) parts manufactured through FDM.
- Strong background in conducting research, authoring research papers, and presenting findings at reputable journals and conferences.
- Familiarity with the characterization of material properties under heat-treated and elevated temperature conditions.
- Ability to investigate the effects of process parameters and material compositions on the performance of 3D-printed parts.
- Proficient in data analysis and modeling techniques, including Nonlinear Autoregressive with Exogenous and Transfer Function models.
- Highly skilled in experimental design, data collection, and interpretation of results.

🏷️ Competencies

- Computer Skills
- MS Office
- Solidworks
- Catia
- Autocad
- Matlab

- 3D printing using SLA and FDM
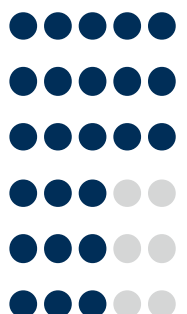
Work History

Researcher
Kırklareli University , Kırklareli
- Performed research in 3D printing of nanocomposite polymers, wear and mechanical characterization of FDM printed materials, manufacturing of filament to use in FDM technology, prediction of 3D printed materials' mechanical behavior using ANN methods.
- Research papers and presentations:

Effect Of Build Orientation On Tribological And Flexural Properties Of Fdm-Printed Composite Pla Parts - JOURNAL OF REINFORCED PLASTICS AND COMPOSITES – 2023

Wear Prediction Of 3d-Printed Acrylonitrile Butadiene Styrene-Carbon Nanotube Nanocomposites At Elevated Temperatures - JOURNAL OF POLYMER ENGINEERING – 2023

Identification Of Tensile Behaviour Of Polylactic Acid Parts Manufactured By Fused Deposition Modelling Under Heat-Treated Conditions Using Nonlinear Autoregressive With Exogenous And Transfer Function Models - JOURNAL OF POLYMER ENGINEERING – 2022

Investigation Of Tensile, Viscoelastic, And Viscoplastic Behavior Of Polylactic Acid Manufactured By Fused Deposition Modeling - JOURNAL OF TESTING AND EVALUATION – 2021

Wear Characteristics Of Pla-Cu Composites Manufactured By Fused Deposition Modelling Under Different Temperature Conditions - BALIKESİR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ – 2021

- Expertise in additive manufacturing, particularly in FDM and the characterization of different materials and composites. Highlights of my research contributions in analyzing mechanical and tribological properties of 3D-printed parts and investigating the effects of process parameters and material compositions.

Research Assistant at Mechanical Engineering
Işık University, İstanbul
- Teaching assistant:

Computer aided engineering design
Mechanics of materials
Machine design
Experimental engineering
- Performed and conducted experiments:

Designing of a pneumatic system
Structural Analysis With Strain Gage Measurements
Demonstration of A Mechatronic System And Designing Of A Pneumatic System
Rotary Servo System
Servo Motor Control of a Linear Axis

2017-05 - Current

2012-01 - 2017-05

Education

2011-04 - 2015-04

- **Master of Science: Mechanical Engineering, Machine Design**
  İstanbul Technical University, Institute of Science And Technology
  GPA: 3.13/4

2006-04 - 2010-04

- **Bachelor of Science: Mechanical Engineering**
  Eskişehir Osmangazi University
  GPA: 3.61

2007-04 - 2011-04

- **Bachelor of Science: Industrial Engineering**
  Eskişehir Osmangazi University
  GPA: 3.21/4

2016-04 - 2023-04

- **Ph.D.: Mechanical Engineering, Machine**
  Yıldız Technical University, Institute of Science And Technology
  GPA: 3.5

Languages

- English (Advanced)
- Bulgarian (Intermediate)

Tennis

As an avid tennis enthusiast, I am deeply passionate about the sport and actively follow news and updates related to tournaments and professional players. Beyond being a spectator, I also actively participate in tennis as an amateur player. I regularly engage in playing tennis at a competitive level by participating in local tournaments in the town I reside. Through my involvement in tennis, I have developed essential skills such as discipline, perseverance, and strategic thinking. The sport has taught me the importance of teamwork, sportsmanship, and maintaining a strong work ethic. By combining my passion for tennis with my academic and professional pursuits, I aim to bring the same level of dedication, determination, and focus to my future endeavors. Tennis has instilled in me a drive for continuous improvement, which I strive to apply in all aspects of my life.