# Res. Asst. Muhammed Fatih ÇAKIR

## Personal Information

**Email:** mfcakir@yildiz.edu.tr
**Web:** https://avesis.yildiz.edu.tr/mfcakir
**Address:** Yıldız Teknik Üniversitesi Makine Mühendisliği Bölümü 34349 Beşiktaş /İstanbul

**International Researcher IDs**
ORCID: 0000-0002-7459-5014
Publons / Web Of Science ResearcherID: AAA-5887-2022
ScopusID: 57219237693
Yoksis Researcher ID: 356955

## Education Information

Doctorate, Yildiz Technical University, Faculty Of Mechanical Engineering, Deparment Of Mechanical Engineering, Turkey 2023 - Continues
Postgraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Deparment Of Mechanical Engineering, Turkey 2020 - 2023
Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Deparment Of Mechanical Engineering, Turkey 2012 - 2020

## Dissertations

Postgraduate, Tekerlekli zırhlı aracın doğrusal matris eşitsizlikleri tabanlı H-sonsuz kontrolör ile aktif titreşim kontrolü, Yildiz Technical University, Faculty Of Mechanical Engineering, Deparment Of Mechanical Engineering, 2023

## Research Areas

Mechanical Engineering, System Dynamics and Control, Modeling and Simulation of Dynamic Systems

## Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Deparment Of Mechanical Engineering, 2021 - Continues

## Published journal articles indexed by SCI, SSCI, and AHCI

I. **Modeling and Simulation of Elevation Dynamics of Main Battle Tank Weapon System with Linear Graph Method**
Çakır M. F., Sezer S., Bayraktar M.
Arabian Journal for Science and Engineering, vol.49, no.8, pp.11157-11166, 2024 (SCI-Expanded)

II. **Modelling of main battle tank and designing LQR controller to decrease weapon oscillations Ana muharebe tankinin modellenmesi ve silah salinimlarinin azaltilmasi için LQR kontrolör tasarim**

Cakir M. F., BAYRAKTAR M.

Journal of the Faculty of Engineering and Architecture of Gazi University, vol.35, no.4, pp.1861-1876, 2020 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

I.  **Active Vibration Control of a Wheeled Armoured Vehicle with $H\infty$ Controller Based on Linear Matrix Inequalities**
    Çakır M. F., Bayraktar M., Yazıcı H.
    2nd Global Conference on Engineering Research - GLOBCER'22, Balıkesir, Turkey, 7 - 11 September 2022, pp.216-223

## Metrics

Publication: 3
Citation (WoS): 1
Citation (Scopus): 8
H-Index (WoS): 1
H-Index (Scopus): 1