

## Res. Asst. Muhammed Fatih ÇAKIR

### Personal Information

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### 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, Department Of Mechanical Engineering, Turkey  
2023 - Continues

Postgraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering,  
Turkey 2020 - 2023

Undergraduate, Yildiz Technical University, Faculty Of Mechanical Engineering, Department 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, Department 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, Department 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**  
ÇAKIR M. F., SEZER S., BAYRAKTAR M.  
Arabian Journal for Science and Engineering, 2024 (SCI-Expanded)
- II. Modelling of main battle tank and designing LQR controller to decrease weapon oscillations Ana muharebe tankinin modellenmesi ve silah salınımlarının azaltılması için LQR kontrolör tasarımı**

Çakır 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 - GLOBECER'22, Balıkesir, Turkey, 7 - 11 September 2022, pp.216-223

## **Metrics**

Publication: 3

Citation (WoS): 1

Citation (Scopus): 6

H-Index (WoS): 1

H-Index (Scopus): 1