

ABDULLAH ENES DORUK

Mobile Phone Number: +90 539 436 4248

E-Mail: abdullahenesdoruk@gmail.com

Github: [enesdoruk](https://github.com/enesdoruk)

Linkedin: [Abdullah Enes Doruk](https://www.linkedin.com/in/Abdullah-Enes-Doruk)

Google Scholar: [Abdullah Enes Doruk](https://scholar.google.com/citations?user=Abdullah-Enes-Doruk)

OBJECTIVE

I am a highly motivated researcher with a strong focus on computer vision and deep learning. My primary interests lie in object detection, semantic segmentation, and 3D vision. With hands-on experience in both real-world and synthetic datasets, I specialize in domain adaptation to develop robust models capable of addressing challenging visual tasks. I seek opportunities to contribute to pioneering research and innovative solutions in vision AI.

EDUCATION

Master's Degree

Ozyegin University,

[February 2023]

Department of Artificial Intelligence Engineering

GPA: 3.6/4.00

Bachelor's Degree

Bursa Technical University,

[September 2017-January 2022]

Department of Electrical and Electronics Engineering

GPA: 3.04/4.00

WORK EXPERIENCE

Graduate Research Student - Deep VIP Lab

Ozyegin University

[January 2023-]

- Developed visual AI solutions in domain adaptation, 3D perception, and remote sensing at Deep VIP Lab.

Perception and Detection Software Engineer

ADASTEC Cooperation

[January 2023-February 2024]

- Developed computer vision and AI systems for autonomous public transportation, focusing on object detection and sensor fusion.

Artificial Intelligence Robotic Software Engineer

DAIMIA Engineering

[February 2022-January 2023]

- Engineered visual AI solutions using synthetic data for various autonomous robotic systems.

Long Term Intern

ADASTEC Cooperation

[November 2021-January 2022]

- Gained practical experience in autonomous software systems for buses, focusing on the integration of hardware and software components.

Long Term Intern

DAIMIA Engineering IT Solution

[November 2020–June 2021]

- Contributed to robotic arm projects for industrial applications and researched 6D pose estimation and synthetic dataset as part of a TÜBİTAK Industry Oriented Research Project Support Programme for Undergraduate Students project.

Summer Intern

Yasa Motor Teknolojileri ve Elektronik Tas. San. Tic.

[June 2021–July 2021]

- Enhanced perception algorithms using camera, lidar, and radar sensors, and integrated them into electric vehicles.

TECHNICAL SKILLS

- **Software:** Object-Oriented Programming (OOP), Computer Vision, Deep Learning (model development and training)
- **Programming Languages:** Python (AI and data science)
- **Tools & Frameworks:** Git (version control), Docker (containerization), LaTeX (documentation), PyTorch (model building)
- **DevOps & Deployment:** CI/CD pipelines, model deployment on cloud and edge devices

PROJECTS and COMPETITIONS

- **TÜBİTAK Industry-Oriented Research Project Support Programme for Undergraduate Students Project:** Developed object and grasp pose estimation models using deep learning on synthetic data (Jan 2021–Jan 2022).
- **TEKNOFEST AI in Transportation Competition 2021:** Implemented multi-scale object detection models for autonomous vehicles as part of the BTU IEEE AI Team (Jan 2021–Sep 2021).
- **TEKNOFEST Unmanned Underwater Systems Competition 2020:** Applied image processing algorithms for autonomous underwater systems, BTU ROV Team (Jan 2019–Sep 2019).
- **TEKNOFEST Robotaxi Autonomous Vehicle Competition 2021:** Designed autonomous driving software utilizing radar, lidar, and camera sensors integrated with ROS, BTU Autonomy Team (Jan 2021–Sep 2021).

PUBLICATIONS

- **DAViMNet: SSMs-Based Domain Adaptive Object Detection**
arxiv.org/abs/2502.11178
- **TransAdapter: Vision Transformer for Feature-Centric Unsupervised Domain Adaptation**
arxiv.org/abs/2412.04073
- **A Comparative Study for 6D Pose Estimation of Textureless and Symmetric Objects in Automotive Manufacturing**
Human-Computer Interaction, Optimization, and Robotic Applications (HORA)
- **Saw-YOLOv5: Scale-Aware YOLOv5 for Object Detection in Aerial Images**
Human-Computer Interaction, Optimization, and Robotic Applications (HORA)
- **HSTR-Net: Reference-Based Video Super-Resolution with Dual Cameras**
Image and Vision Computing (IVC) journal

COMMUNITY INVOLVEMENT

- **Head**, BTU IEEE Computer Science Student Branch
- **Member**, BTU Autonomy Team
- **Technical Writer**, Veri Bilimi Okulu