AHMET AKMAN

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Education

Université Paris-Saclay   **2024 – 2025***
Master of Science (M2) in Computational Neuroscience and Neuroengineering   *Paris, France*
Program organized by NeuroPSI and CentraleSupélec

Middle East Technical University   **2020 – 2024**
Bachelor of Science in Electrical and Electronics Engineering   *Ankara, Turkey*
Specialized in Signal Processing   *[CGPA: 3.45/4.0]*
English Preparatory School   *2019 – 2020*

Experience

CentraleSupélec L2S   **October 2024 – Ongoing**
Project Researcher   *Gif sur Yvette, France*
- Working on control theory approach to self-organized criticality in neuronal systems.

METU OGAM (Center for Image Analysis)   **February 2022 – August 2024**
Undergraduate Researcher   *Ankara, Turkey*
- Worked on event-based vision and neuromorphic schemes under the supervision of Prof.Dr.Aydın Alatan
- Developed the SotA method in event-based video frame interpolation and published it at a major conference.
- Worked on event-based high speed feature tracking problem.

Max Planck Institute for Dynamics and Self-Organization   **July 2023 – September 2023**
Research Intern   *Göttingen, Germany*
- Have been working on self-sustaining only-excitatory neuronal network dynamics under the supervision of Dr. Johannes Zierenberg and Jonas Dehning in the Prof. Viola Priesemann's group. (**Ongoing project.***)

HAVELSAN   **October 2023 – August 2024**
Candidate Engineer   *Ankara, Turkey*
- Worked in autonomous and swarm systems team as a computer vision specialist.

ESEN System Integration   **July 2022 – August 2022**
Intern   *Ankara, Turkey*
- Worked on development of deep-learning based EO-EO, EO-IR image registration system.
- Implemented 5 state-of-the-art paper in Python and PyTorch and tested them with airborne-spaceborne data.

Publications

Conference Workshop Paper   **2024**
*Kurt, Y. B., **Akman, A.**, & Alatan, A. A. (2024). Causal Transformer for Fusion and Pose Estimation in D-VIO.* ArXiv
Presented in-person at ECCV2024.

Conference Paper   **2023**
*Kilic, O. S., **Akman, A.**, & Alatan, A. A. (2023). E-VFIA: Event-Based Video Frame Interpolation with Attention.* IEEE
Presented in-person at ICRA 2023.

Preprint   **2023**
***Akman, A.**,Kilic, O. S., & Alatan, A. A. (2023). MAEVI: Motion Aware Event-Based Video Frame Interpolation.* ArXiv
ArXiv Preprint.

References

Professor Dr. A. Aydın Alatan   Faculty of METU EEE, Founding director of METU OGAM
                                                       Contact: alatan@metu.edu.tr +903122102351
Dr. Johannes Zierenberg   Post-doc at Max Planck Institute for Dynamics and Self-Organization
                                                     Contact: zierenberg@ds.mpg.de +495515176475

Languages

Turkish: Native – **English**: C1, IELTS Academic Score: 7.5 (10/2023) – **French** and **German**: Beginner

Honors and Awards

Graduation GPA | *METU Electrical and Electronics Engineering Dept.*   *Jun 2024*
Ranked in top %10 upon graduation.

First Place | *METU Aerospace Engineering Dept. - Boeing*   *Nov 2021*
VTOL competition with METU Göksat Space Team

Second Place & Best Presentation | *Havelsan - T3 Foundation*   *Sep 2021*
Swarm UAV competition, Teknofest, using Crazyflies quadcopters

Third Place | *Pixery Hackathon, IEEE METU*   *Jan 2020*
48-hour hackathon for aiding visually impaired via machine learning and CV

National University Entrance Exam | *ÖSYM - Ministy of Education*   *Jun 2019*
Ranked 1174th amongst 2024549 ($\approx 2M$) participants.

First Place | *Akdeniz University*   *May 2019*
AI for UAV project, Prof. Dr. Fuat Sezgin Competition

Second Place | *TÜBİTAK*   *Mar 2018*
Cube Satellites Project, Coding Category, Inter-High School Research

First Place | *Ministry of Education - TÜBİTAK*   *May 2017*
11th International MEB Robotics Competition, Design and Run

Leadership / Extracurricular

METU Göksat Space Team   **January 2020 – November 2021**
Team Leader   *Techical Student Team*
- Led the METU Göksat Space Team in national and international aerospace competitions, overseeing the organization and operations of four specialized subteams: Electronics/Software, Organization/Sponsorship, Mechanical, and Integration.
- Served as Electronics/Software subsystem designer. Developed the electrical subsystem for a mini UAV, designed electronics and PCBs for avionics across three model satellites, and created embedded software for satellite models.

Antalya Anatolian High School Physics Society   **October 2016 – June 2018**
Science Club Co-President
- Co-led the Physics Society, organizing initiatives to foster scientific engagement among students.
- Coordinated events, including sky observation nights, educational conferences, Pi Day celebrations, and science fair experiments.
- Established club room and robotics division.

Technical Skills

Programming Languages: Python, MATLAB, C, Julia, ARM Assembly
Technologies/Frameworks: OpenCV, PyTorch, Git, Conda, NumPy/CuPy, Matplotlib, SciPy, Intel LAVA, Brian2 Simulink, Linux, LabView, Verilog HDL, Qt, Eagle CAD, Fusion360 CAD, Siemens NX CAD, HTML/CSS, LaTeX

Interests

Turkish Classical Music (Former soloist at ODTÜ KTMT), Street Photography, Astronomy, Motorsports, Football