

AHMET AKMAN

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Education

Swiss Federal Institute of Technology Zurich || ETH Zürich **2025 – Ongoing**
Doctorate at D-ITET (Electrical Engineering and Information Technology) and ZNZ (Neuroscience). Zurich, Switzerland

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

Middle East Technical University **2020 – 2024**
Bachelor of Science in Electrical and Electronics Engineering *Ankara, Turkey*
Specialized in Signal Processing
English Preparatory School *2019 – 2020*

Experience

ETH Zürich **October 2025 – Ongoing**
Doctoral Researcher *Zurich, Switzerland*

- Research in Neural Dynamics Lab at Institute of Neuroinformatics under the supervision of Prof. Timothée Proix.

ETH Zürich **January 2025 – July 2025**
Master Thesis Intern *Zurich, Switzerland*

- Studied task schemata in target learning within the Grewelab at Institute of Neuroinformatics for my masters thesis internship.

CentraleSupélec L2S **October 2024 – December 2024**
Project Researcher *Gif sur Yvette, France*

- Worked on control theory approach to self-organized criticality in neuronal systems. Poster presented.

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.

References

Available upon request.

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 - Ministry 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

Technical 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, L^AT_EX

Interests

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