

Tugrul Aydin

linkedin.com/in/tugrlaydn/ · github.com/tugrlaydn · tugrl.aydn@gmail.com

Education

Middle East Technical University
B.S. in Electrical and Electronics Engineering

Ankara, TR
09/2018 - Present

Experience

Ulak Communications Inc., *Researcher*

04/2023 - Present

- Working on sixth-generation (6G) research and development project.

Communication Networks Group, *Undergraduate Researcher*

09/2021 - Present

- Working on a new protocol based on the freshness of knowledge by implementing **Age of Information (AoI)** on the **AL-FEC** protocol. Responsible for the preparation of the tests and the code that will run the protocol on the devices.

Tübitak Bilgem Iltaren, *Candidate Researcher*

09/2022 - 12/2022

- Worked on electronic warfare systems, coding signal processing algorithms with VHDL for Xilinx FPGAs.

Aselsan, *Intern*

07/2022 - 08/2022

- Worked as a system engineering intern under Marine Electro-Optical System Engineering Directorate in Akyurt Facilities.

Communication Networks Group, *Research Intern*

07/2021 - 09/2021

- Involved in the development of novel AL-FEC protocol that tries to optimize the **Age of Information (AoI)** and setted up an **Internet of Things (IoT)** testbed for the protocol under the supervision of Prof. Elif Uysal.

Research Interests

Age of information, information theory and internet of things. **Currently, interested in terrestrial and non-terrestrial networks and handover mechanisms.**

Skills

Programming Languages: Python, C++, MATLAB, VHDL

Programs: MATLAB, Simulink, Xilinx Vivado, QuestaSim

Documentation: MS Word, MS Excel, L^AT_EX