

Ahmet Hamdi Unal

BSc. Physics & Electrical and Electronics Engineering

Experienced in conducting **experiments**, doing **research**, scientific **programming**, and **tutoring**. Interested in expanding my knowledge in Physics and Engineering by combining them with Mathematics and Computer Science. Hence, studied further on various disciplines, including **Machine Learning (ML)**, **Discrete** and **Abstract Mathematics**, and **Material Sciences**. Very eager to collaborate, experience and learn new stuff.



Personal Info

Address: Koç University
Rumelifeneri Yolu 34450, Sariyer,
Istanbul

Email: aunal16@ku.edu.tr

Personal Website:

<https://www.ahmethamdiunal.com>

LinkedIn:

<https://www.linkedin.com/in/ahmethamdiunal/>



Skills

TECHNICAL

Strong Skills:



MATLAB | Simulink | C | Python

Intermediate Skills:



Java | C++ | R | VHDL | Assembly

Other Skills:

Microsoft Office | PSpice | LaTeX |
COMSOL Multiphysics | Solidworks

LABORATORY

- Raman Spectroscopy
- X-ray Diffraction Spectroscopy
- Chemical Vapor Deposition



Languages

Turkish
English
German



Interests

- Playing tennis
- Reading history books
- Playing the piano & class. guitar



Education

Koç University

2022

BSc. Physics & Electrical and Electronics Engineering GPA 3,98/4,00



Experience

2021 Feb.
Present

Undergraduate Research Assistant

Koç University College of Eng. & Science, Istanbul

- Very Low Frequency EM Waves in Ionospheric Plasma are studied. MATLAB program to analyse data from DSX spacecraft is further developed.

2021 Sep.
2022 Jan.

Signal Processing Engineer Intern

Hospital on Mobile, AI Team, (Remote) Palo Alto, CA

- Worked on the detection blood pressure from the video of one's face, using signal processing and ML.

2020 Aug.
2020 Sept.

Summer Engineering Intern

Ambeent Inc. Dept. of Artificial Intelligence, Istanbul

- Analysed smart watches / wristbands. Mainly focused on health-related sensors.

2018 Oct.
2020 Sep.

Undergraduate Research Assistant

Koç University College of Engineering, Istanbul

- Conducted research on ZnO nanowires using CVD method. Received training on Raman and X-ray Diffraction Spectroscopy to analyse the samples.

2019 Feb.
2019 Jun.

Laboratory Teaching Assistant

Koç University Department of Physics, Istanbul

- Installed setups/demonstrated experiments to for the lab component of PHYS102– Electromagnetics.

2017 Oct.
2018 Jan.

Undergraduate Research Assistant

Koç University College of Engineering and Science

- Conducted research on Digital Micromirror Devices, specifically on Digital Light Processing.



Additional Experience & Activities

MATLAB Student Ambassador
Figes Inc, Istanbul

Received MATLAB & Simulink trainings and provided help.

Member of Board
Koç University Science Club, Istanbul

Organized seminars & events. Contacted with academic members.

Group Leader
CS 101, Hello World!, Remote

Lectured, prepared homework, assisted high school students with Python.

Tutor

KOLT, Istanbul

Lectured and assisted peers with MATLAB.

Member of Power Equipment Team

Koç University Racing Team, Istanbul

Worked on battery cells and battery management systems.