

Kamil Anıl IŞIK

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About Me

- I am senior **Electrical and Electronics Engineering** and **Mathematics** student at Middle East Technical University.
- Fascinated by the mathematics, field of electromagnetic and communication.
- Passionate to participate and do research in related fields.

Education

- **Middle East Technical University** (2019-2024 (Expected))
 - Department of Electrical and Electronics Engineering (CGPA:3.25/4)
 - Department of Mathematics (CGPA: 3.02/4)
- **Manisa Turgutlu Halil Kale Science High School** (2015-2019)
 - Graduation Degree: 96.54
 - University Entrance Exam Ranking: 2088

Internship

- **NETAS Telecommunication** (18.07.2022-19.08.2022)
Coded messaging application by using Apache Kafka servers
- **Electronics & Nanoengineering Department, Aalto University** (03.07.2023-18.09.2023)
Worked on "measuring permittivity of materials in 3D printing" under supervision of Prof. Viktor Asadchy

Research

- **Advanced Photonics Photovoltaics (METU)**
I work on various projects in research group at METU supervised by Prof. Selçuk Yerci.
ReBTEPP Project:
 - Developed MATLAB program for theoretical reflection of material by using refractive index.
 - Compared theoretical reflection with experimental reflection to estimate thickness of material with high accuracy.*Indoor Performance of Perovskites:*
 - Analyzed perovskites with variable band-gaps and thicknesses under different led irradiances by using SCAPS simulation tool.
 - Extracted best generation profile of perovskites for each led irradiances.
 - This study was presented in National Optics, Electro-Optics and Photonics Workshop in 2022
 - Poster: *Indoor Perovskite Poster**Optical Constants of Organics Blends:*
 - Performed simulation based on Transfer Matrix Method to extract refractive index information of blends in organic solar cells with different ratios.
 - This study was presented in National Optics, Electro-Optics and Photonics Workshop in 2022
 - Poster: *Organic Blends Poster*

Perovskite in Space:

- Performed SCAPS simulation to analysis electrical characterization of different perovskite solar cells.

○ **Designer Materials & Devices (Aalto University)**

I was member of research group conducted by Prof. Viktor Asadchy at Aalto University in Finland.

Permittivity Measurements of 3D Printing Materials:

- Worked on permittivity measurements of materials commonly used in 3D printing.
- Designed materials by using Siemens NX
- Performed measurements and simulation by using wave-guides for sub-Thz frequency and by HFSS.

Volunteering

○ **TedxMetuAnkara** (2019-2021)

I was volunteer in social media team of TedxMetuAnkara and we organized TEDx event named Yap-Boz (Puzzle) in 2020.

○ **Matematiksel (Mathematical)**

I am currently one of volunteer writer of "matematiksel" website including writings about popular science, mathematics and general culture in Turkish.

My writings: *Matematiksel*

Skills & Language

- **Technical Skills:** Python, MATLAB, Microsoft Office, Ltspice, Siemens NX, SCAPS
- **Language:** Turkish (Native), English (Professional)

Certifications

- Class B driving licence

Interests

- Classical musics, piano, basketball, movies