



KAAN BAŞPINAR

Physicist



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<https://github.com/KaanBaspinar00>

EDUCATION

Physics

Middle East Technical University

2019-2024 (3.20/4)

Atakent Anatolian High School

2015-2019

EXPERTISE

- Python
- Data Analysis
- ZEMAX (Optical System Design Program)
- Fourier Optics
- Martin Puplett Interferometer

PROJECT

Simulation Development and Machine Learning Application on Multi-Layer Thin Films (with Transformers and LSTM models)

LANGUAGE

- English
- Turkish

PROFILE

Physicist experienced in accelerator technologies and Martin-Puplett Interferometer (MPI). Good at Python and ZEMAX, with experience at TARLA-FEL. Dedicated to tasks like data analysis for the MPI. Interested in deep learning, neuroscience, photoplethysmogram (PPG), opto-electronics and more.

WORK EXPERIENCE

Zetetis (Start-Up)

2024 May - 2024 Nov

Co-Founder

- Developing python codes for volatility measure models, risk evaluations, anomaly and similarity detections and time-series analysis for assets; news fetching, data visualizations and more

Turkish Accelerator Radiation Laboratory (TARLA-FEL)

2023 Nov - 2024 Jun

Candidate Engineer

- Developing data analysis code in Python for the Martin-Puplett interferometer.
- Commissioning the diagnostic cabinet.

Turkish Accelerator Radiation Laboratory (TARLA-FEL)

2023 - Summer

Intern (20 days)

- Working on gamma spectroscopy

REFERENCES

Prof. Dr. AHMET BİNGÜL

METU

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