



# Eren Ege Çelik

## Physics Student

### Contact

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#### Email

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#### Address

Izmir/Turkey

### Expertise

Full Stack Development

Scientific Research & Independent Projects – Capable of designing, modeling, and analyzing self-driven projects

### Language

Turkish - Native

English - B2+

Deutch - A2

### Certificates

Internship, Semiconductor Company, Germany — Chip Manufacturing, 2023

Summer School at Kadir Has University - Augmented Mechanics and Augmented Electricity Magnetism

### About

I am a first-year Physics student at İzmir Institute of Technology (IZTECH), with a strong passion for both theoretical and applied physics, as well as quantum computing. My academic interests revolve around foundational problems such as the Collatz conjecture, P vs NP, reversible computation, and the integration of information theory with physics and computer science. I am proficient in C, C#, and Python, and have developed several mobile applications and websites, which have strengthened my skills in full-stack development and user-focused design. I have also conducted independent research projects, including one involving reversible logic and cryptographic systems, aiming to explore new models of computation that preserve information. Recently, I completed an internship at a semiconductor company in Germany, where I gained hands-on experience in chip manufacturing technologies. My goal is to contribute to pioneering research in quantum computing and computational physics by collaborating with interdisciplinary teams working at the cutting edge of science and technology.

### Education

2024 - present

Izmir Institute of Technology

#### Bachelor on Physics

Currently pursuing undergraduate studies with a strong focus on theoretical and applied physics.

2023

Kadir Has University

#### Summer School

Successfully completed advanced-level high school courses in Augmented Mechanics and Augmented Electricity and Magnetism, designed for motivated science students. Gained early exposure to university-level physics concepts and applications.

2020 - 2024

Izmir Atatürk Lisesi

#### High School

Graduated with a 94/100 GPA. Attended Kadir Has University Summer School (Augmented Mechanics & E&M) in 11th grade. Completed an independent internship at a chip manufacturing company in Germany during the 12th grade winter break.

### Projects

- Micro Fundus Camera R&D – Recently started contributing to a research and development project focused on miniaturized retinal imaging devices, combining optics, physics, and AI.
- Theoretical Math Research – Independently exploring problems such as the Collatz conjecture, reversible computation, and P vs NP through combining logic and information theory.
- Mobile & Web App Development – Created mobile apps and websites for personal and collaborative use, with emphasis on user experience and system logic.