

## EDUCATION

B.S.E. in Electrical and Computer Engineering

**Princeton University**

09/2019 – Expected 05/2023

- Current GPA: 3.944/4.000
- Certificates: Finance, Applications of Computing, Statistics and Machine Learning
- Previous Relevant Coursework: Statistics, Combinatorics, Intermediate Microeconomics, Probability and Stochastic Systems, History of International Order, Principles of Quantum Engineering, Algorithms and Data Structures, Logic Design, Electronic Circuit Design, Introduction to Programming Systems, Quantum Optics
- 2021 Fall Coursework: Financial Investments, Machine Learning and Pattern Recognition, Introduction to Quantum Computing, Solid-State Devices, Reasoning about Computation

High School

**Bahcesehir High School for Science and Technology**

09/2014 – 06/2019 Istanbul, Turkey

- Valedictorian of the school with GPA 99.92/100.
- Had 5 years of full-ride merit-based scholarship.

## ACTIVITIES

Princeton Society of Physics Students

**President (after 01/2021), previously Vice President**

09/2020 – Present Princeton, NJ

- Organized a mentorship program, weekly talks given by faculty, experience in club administration.

Princeton Society of Philosophy

**Co-Founder, Co-President**

04/2021 – Present Princeton, NJ

- Co-founded the Society to facilitate interdisciplinary conversation around philosophy, experience in managing school regulations for student organizations.

Volunteer

**Young Guru Academy (YGA)**

03/2018 – 01/2019 Istanbul, Turkey

- Participated in highly-selective YGA High-School Innovation Program – attended private seminars and group discussions with leading figures in Turkey business and academic circles on leadership, communication, management, and personal development.
- Gave multiple two-day-long robotics workshops to primary school students in rural areas.
- Co-initiated the R&D for a monthly subscription line of demonstrative science experiment kits for primary school students. Experience with project management.
- Co-developed an interactive trash can prototype using gamification techniques to decrease the littering.

Science Outreach & Translation

10/2017 – Present

- Co-translated Blitz Contest of IOM 2018 to Turkish, also wrote special Turkish solutions. Published in the December 2018 Issue of Potansiyel Bahcesehir (ISSN: 2147-5911).
- Co-founded [bilimolimpiyatları.com](http://bilimolimpiyatları.com), dedicated to providing Turkish Physics resources for the interested students.
- Initiated, later mentored the translation project for Prof. Jaan Kalda's famous "Physics Olympiad Booklets". 95k people in total were reached with the Kinematics and Mechanics booklets.
- Co-translated "Russian Physics Olympiads 2005-2017". Unpublished manuscript – internally in use by Turkey National Physics Olympiad Committee.

## HONORS & AWARDS

- Shapiro Prize for Academic Excellence for 2019-20, "recognizing outstanding academic achievement by Princeton undergraduates in their first or second years."
- Silver medal at International Physics Olympiad 2018 and 2019.
- Gold medal at European Physics Olympiad (EuPhO) 2019, silver at EuPhO 2018.
- Bronze medal at Asian Physics Olympiad 2018 and 2019.
- Gold medal at International Olympiad of Metropolises (IOM) 2018, silver at IOM 2017.
- Gold medal at International Zhautykov Olympiad 2018.
- Gold medal at both Istanbul (2017 and '18) and Turkish Physics Olympiads (2018 and '19).
- Winner of the Istanbul Round of Telecom Applications Developer Hackathon 2015, with project Tweecommand – Remote printing via Tweeter.
- Juries' Special Award at MasterCard Masters of Code Istanbul 2015, with project Celeblstanbul – Tourism information via animations in Unity3D.
- Juries' Special Award and IBM Support Award at BBVA GarantiBank Hackathon 2015, with project PaperSecure – Prevention of cheque fraud and illegal copying of other valuable documents with a mechanical apparatus for Android.

## EXPERIENCE

Member of Technical Staff, Intern

**Illumio, Inc.**

06/2021 – 08/2021 Sunnyvale, CA

- Illumio is a cybersecurity unicorn, delivering solutions in Zero Trust architecture and network segmentation.
- Worked with Quality Assurance (QA) team over the summer, automating the data transfer and visualization processes for key testing metrics.
- Experience with Jenkins, Jira, Domo, and SQL.

Course Facilitator and Grader

**COS226, Algorithms and Data Structures**

01/2021 – Present Princeton, NJ

- COS226 is the core standard, intermediate level algorithms course at Princeton.
- As an assignment grader, graded biweekly assignments in Java and delivered extensive feedback to the students.
- As a course facilitator, assisted the graduate preceptor in the weekly precepts to ensure all students received personalized care and led the classes when the original preceptor was not present.

Plasma Physics Intern

**Princeton Plasma Physics Lab**

06/2020 – 09/2020 Princeton, NJ

- Internship supported by Princeton Environmental Institute, at the *Princeton Field Reversed Configuration* fusion research.
- Worked on modeling the external fusion-relevant electromagnetic fields with the industry-level many-particle simulation suite Vector Particle-In-Cell (VPIC).
- Gained experience in plasma and fusion physics (both theoretical and computational), C/C++ programming languages, Linux-operated super-computer clusters, and the visualization software ParaView.

## SKILLS

Python, Java, C/C++, (RISC) Assembly, Verilog HDL, R, MATLAB, SQL, PLC / Ladder Logic, Modbus, Zigbee, Agile philosophy, effective communication, Turkish (native speaker).