Eren Dogan

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PhD Student in Computer Science and Engineering

Baskin School of Engineering

University of California, Santa Cruz

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EDUCATION

PhD in Computer Science and Engineering — University of California, Santa Cruz

GPA: 3.86/4.00 — *September 2022 – June 2026 (expected)*

Advisor: Prof. Matthew Guthaus

BS in Computer Science — Ozyegin University

GPA: 4.00/4.00 — *September 2017 – June 2022*

Honors: Valedictorian, High Honor, Full-tuition scholarship

RESEARCH

Publications

C.1   Bugra Onal, **Eren Dogan**, Muhammad Hadir Khan, and Matthew R. Guthaus
"GAT-Steiner: Rectilinear Steiner Minimal Tree Prediction."
Paper at *43rd IEEE/ACM International Conference on Computer-Aided Design (ICCAD 2024)*, Newark, NJ, USA, October 2024.

P.1   **Eren Dogan**, H. Fatih Ugurdag, Hasan Unlu
"Deep Compression for PyTorch Model Deployment on Microcontrollers."
Poster at *35th International Conference on VLSI Design and 21st International Conference on Embedded Systems (VLSID 2022)*, Bengaluru, Karnataka, India, February 2022.

W.1   **Eren Dogan**, H. Fatih Ugurdag, Matthew R. Guthaus
"OpenCache: An Open-Source OpenRAM Based Cache Generator."
Paper at *4th Workshop on Open-Source EDA Technology (WOSET 2021)*, Zoom, November 2021.

Contributions

2025-   Contributor to OpenROAD, an open-source RTL-to-GDS Flow.

2022-24   Contributor to OpenRAM, an open-source static random access memory (SRAM) compiler.

2021   Developed OpenCache, an open-source custom cache generator.

Teaching Experience

Teaching Assistant

University of California, Santa Cruz

Introduction to Analysis of Algorithms (CSE 102)	Spring 2025
Introduction to Data Structures and Algorithms (CSE 101)	Fall 2022, Spring 2024

Ozyegin University

Computer Architecture (CS 240)	Fall 2020
Digital Systems (EE 203)	Spring 2020
Computer Programming (CS 101)	Fall 2019

Service

Reviewer

2025 *62nd ACM/IEEE Design Automation Conference (DAC 2025)*.

2024 *32nd IFIP/IEEE International Conference on Very Large Scale Integration (VLSI-SoC 2024)*.

2024 *6th ACM/IEEE International Symposium on Machine Learning for CAD (MLCAD 2024)*.