OZAN EKAME PEKGOZ

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EDUCATION

Boston University, College of Engineering
Bachelor of Science, Computer Engineering   Expected May 2027
Relevant Coursework: Computer Architecture, VLSI Design, Circuits, Logic and Design, Electronics, Software Engineering, Algorithms, Discrete Math, Probability and Statistics

PROJECTS

Portfolio: https://ozanekame.com/

Color Sorter Machine (Winner of 2027 Class Group)   Jan 2025 - May 2025
- Arduino + TCS34725 sorter; 95% accuracy (100 trials), ~10 items/min ($\mu \approx 6.5s$), ~21 W power; built under $106 total cost.
- Designed light-robust thresholds and a deterministic servo/stepper control loop; LCD shows live per-color counts.

FPGA-Based Binary Conversion Game System   Jan 2025 - May 2025
- Authored Verilog stack: FSM game logic, debounced inputs, Binary to BCD, seven-seg decode with clock-divided multiplex refresh.
- Added pseudo-random prompt generation and timer/score display; designed testbenches per module for stable, flicker-free output.

Unit Converter Web App   Sep 2024 - Dec 2024
- Offline WASM (C/C++) + JS app covering 15+ conversion categories and custom unit rules; all calculations run natively.
- Built persistent history log with one-click .txt export; optimized UI/runtime for smooth interaction.

EXPERIENCE

Sales & Product Management Intern   May 2024 - Aug 2024
Dima Textile   Barcelona, Spain
- Expanded customer base by presenting products to prospective clients directly at company headquarters.
- Tracked garment production in Excel to ensure accurate, on-time delivery.

IT Support Technician Intern   Jul 2022 - Jul 2022
Alliance Healthcare   Istanbul, Turkey
- Supported IT staff by troubleshooting technical and computer issues.
- Assisted with server security maintenance and order-tracking systems.

SKILLS

Computer: Python, MATLAB, Onshape, C++, C, Java, JavaScript, HTML, WASM, Machine code, Verilog, Algorithms
Hardware: Cadence, FPGA Design (Verilog, Vivado), Arduino, Oscilloscope, Multimeter, Soldering
Languages: Spanish (native), Turkish (native), English (native), Catalan (fluent), French (intermediate)

LEADERSHIP & ACTIVITIES

Boston University College of Engineering Student Advisor   Summer 2025 - Present
EISB Men's Basketball Assistant Coach   Sep 2022 - Dec 2022
Barbell Club ,AI Society Club ,Mars Rover Club ,Federate Basketball ,Piano ,Surfing ,Vinyl