

Serkan Yurday
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EDUCATION

Cornell University, College of Engineering, Ithaca, NY
Bachelor of Science Candidate, Mechanical Engineering

May 2028

Relevant Courses: Thermodynamics, Differential Equations, Statics and Mechanics of Solids, Dynamics*, Linear Algebra*, Introduction to Mechanical Design*

**To be completed in Spring 2026*

EXPERIENCE

Cornell Electric Vehicles (CEV) Project Team

November 2024-Present

Mechanical Sub team Member, Chassis Subsystem

- Partnered with 50+ engineers across subsystems to deliver a **20.5 mi/kWh** autonomous electric vehicle
- Executed carbon-fiber layups: mold prep, sanding, Duratek spray, resin ratios, and precise fiber placement
- Designed and manufactured a forged carbon-fiber steering wheel that reduced weight by **30%** compared to prior aluminum designs while improving stiffness, ergonomics, and load-bearing capability.
- Prepared and sanded molds to exact tolerances, enabling smooth surface finish and stronger fiber bonding
- Practiced advanced CAD surfacing in Autodesk Alias to model chassis geometries, building skills to support future aerodynamic and structural optimization studies.

Kineon Labs

May 2025-Present

Mechanical Engineering Intern

- Developed and implemented sprint plans in Asana for upcoming CALM+ product based on PRD
- Produced mechanical documentation by creating precise exploded-view diagrams for user manuals
- Collaborated with manufacturers overseas to refine component design, ensuring manufacturability, material compatibility and adherence to tight tolerance requirements
- Created over **forty** photorealistic 3D renderings and animations of various products for use in marketing campaigns
- Extended role into Fall 2025 semester in a remote capacity

PowerX Technology

July 2023

Summer Intern

- Analyzed global diesel generator market trends, identified key manufacturers, and estimated market size/value by geography, industry and technology fit
- Developed use-cases for diesel generator telemetry, identifying predictive maintenance opportunities

Waterfall Garage Services

May-August 2023

Repair Assistant

- Conducted oil changes, brake calibrations and A/C replacements on a variety of car makes including BMW, Mini Cooper and Ford.
- Learned to operate advanced automotive diagnostic equipment to interpret error codes, analyze performance data, and guide repair solutions.

SPECIALIZED SKILLS

Programs: Autodesk Inventor, Autodesk Alias, Fusion360, SolidWorks, Blender, Python

Manufacturing: 3D Printing, Manual Mill & Lathe, Carbon Fiber Layups, Forged Carbon Fiber Synthesis

PERSONAL

- Passions include rowing, weightlifting, basketball, woodworking, pencil sketching
- 2023 National Schools' Regatta 8+ Finalist, raced in Henley Royal Regatta qualifying rounds
- Dual US and UK Citizen, speak conversational Turkish