

Leona Barocas

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WORK EXPERIENCE

Honors Intern, September 2025 – Present

Federal Bureau of Investigation, Philadelphia, PA

Case support, research, and data analysis to protect the United States of America from foreign and domestic threats.

Engineering Electromagnetics Teaching Assistant, January 2025 – May 2025

School of Engineering & Applied Sciences at University of Pennsylvania, Philadelphia, PA

Leading recitations and labs for engineering students in introductory electricity and magnetism course; instructing students in small groups during weekly office hours

Geodetic Survey Crew Intern, May 2024 – August 2024

Minnesota Department of Transportation, St. Paul, MN

Traveled to numerous locations around state to measure points of elevation and other land surface features; Used GPS-based data-collecting methods to develop geodetic map of entire state to be used for public and private projects

Calculus Tutor, January 2024 – May 2025

Weingarten Center at University of Pennsylvania, Philadelphia, PA

Instructing peers in single- and multivariable calculus via the socratic method; communicating with 300-person tutoring team to provide assistance to thousands of students

Barista, February 2022 – August 2023

Caribou Coffee, St. Paul, MN

Serviced hundreds of customers at highly popular coffee shop; memorized recipes for over 25 drinks sold daily

EDUCATION (in progress)

Bachelor of Science in Mechanical Engineering & Applied Mechanics, Expected completion: May 2027

University of Pennsylvania, Philadelphia, PA, GPA 3.93

Coursework including mechanical design, thermodynamics, finite element analysis, fluids, energy engineering, engineering electromagnetics, environmental mechanics, and advanced mathematics

Master of Science in Mechanical Engineering & Applied Mechanics, Expected completion: December 2027

University of Pennsylvania, Philadelphia, PA,

Concentrating in Heat Transfer, Fluid Mechanics, and Energy

CERTIFICATIONS/ACHIEVEMENTS/SCHOLARSHIPS

Department of Defense SMART Scholarship-for-Service Scholar, August 2025 - Present

National Merit Scholar, August 2023 - Present

Society of Automotive Engineers Scholar, August 2023 - Present

Certified SolidWorks Associate, May 2024

VOLUNTEER EXPERIENCE

Strike Team Leader, July 2025 - Present

Team Rubicon Disaster Response, Multiple National Locations

Leading teams of volunteers to assist homeowners before, during, and after disasters. Ensuring team safety and equipment maintenance in hazardous areas. Communicating with field leadership to maximize Team Rubicon's impact. Deployments include a flood response in Milwaukee, WI and a chainsaw operation in Bemidji, MN.