

John Wagner

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Education

Villanova University, Villanova, PA
Bachelor of Science in Civil Engineering
Honors College

May 2028

Experience

The Whiting-Turner Contracting Company Engineer Intern | Washington, DC

May 2026 – August 2026

- Coordinated with project teams and subcontractors to support daily field operations and resolve issues within an active hospital environment.
- Led daily coordination huddles and performed quality control inspections to track field progress and communicate project priorities.
- Reviewed drawings and project sequencing across MEP, architectural, and construction scopes to identify potential field conflicts and support coordination.

DEVCOM Army Research Laboratory (ARL) | Aberdeen/Adelphi, MD

May 2025 – August 2025

- Analyzed 1,500+ airfoil designs using Python to identify representative designs for experimental testing.
- Applied clustering and data preprocessing techniques to organize large airfoil datasets and support design selection.
- Modeled and 3D printed selected airfoils in SolidWorks and conducted wind tunnel testing to compare experimental performance.

Leadership & Activities

Member, Steel Bridge Competition Team | Villanova University

March 2026 – Present

- Collaborate with a student engineering team to design, fabricate, and construct a scale steel bridge for competition while applying structural engineering principles and problem solving skills.

Cadet, ROTC | Villanova, PA

August 2025 – Present

- Participate in leadership development, physical training, and military science coursework focused on teamwork, accountability, and ethical decision making.

Local Program Host, Special Olympics | Villanova University

September 2024 – Present

- Assisted Special Olympics officials and event staff to ensure safety of 500+ athletes.

Member, NOVADance | Villanova University

November 2024 – Present

- Raised funds for the Andrew McDonough B+ Foundation supporting childhood cancer research

Volunteer, RUIBAL | Villanova, PA

August 2024 – Present

- Provided academic tutoring and one on one mentorship to students in the Philadelphia area, reinforcing core subjects while fostering confidence and long term learning skills.

Varsity Captain, Basketball | Fountain Fort Carson High School

August 2022 – March 2024

- Led team of 15 athletes, fostering a culture of hard work and effective communication.

Skills

Technical Skills: Python, KMeans Clustering, StandardScaler, Matplotlib, Microsoft Excel, PowerPoint, Bluebeam, Procure, AutoCAD, ArcGIS, SolidWorks, SimaPro