

# Andrew Kline

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Hard working student studying Civil and Environmental Engineering eager to apply my academic, engineering, and other related skills to create solutions for problems in the real world with a focus on sustainability and longevity.

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## **Education**

Villanova University, Villanova, PA

- Bachelor of Science in Civil & Environmental Engineering
  - Minors in Business, Sustainable Engineering, & Real Estate Development
  - Expected Graduation in May 2024
  - Dean's List for Fall 2021 Semester
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## **Skills**

Autodesk Inventor, AutoCAD, ArcGIS, STAAD, Surveying, 3D Printing, Google Drive, Microsoft Office

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## **Engineering Experience**

Bridge Underpinning Project, Robeson Township, PA (Summer 2022)

ETSI in PennDOT District 5-0 Bridge Unit

- Participate in the existing structure inspection to prepare for the design phase
- Lead the project design and develop plans on MicroStation

Proposed Development Project, Villanova, PA (Spring 2022)

GIS for Engineers

- Develop a plan for a proposed residential development of 50 homes and open space plots on a designated plot of land with two existing historical sites, steep slopes, and wetland areas in East Fallowfield Township, PA
- Implement considerations for rainwater collection and runoff, transportation safety, and general consumer purchase trends

Walking Path Redesign, Villanova, PA (Spring 2021)

Civil Engineering Fundamentals

- Survey, measure, & analyze an existing walking path at the Villanova University Constructed Stormwater Wetland
  - Develop & establish ideas as a team of five students to meet design requirements using ArcGIS & AutoCAD softwares
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## **Work, Volunteer, & Internship Experience**

Engineering, Scientific, & Technical Intern (ESTI) in the Bridge Unit (Summer 2022)

Pennsylvania Department of Transportation District 5-0, Allentown, PA

- Performs tasks related to design, inspection, and maintenance of bridges within PennDOT's District 5-0 (6 counties)
- Lead the design of an underpinning project of a state owned bridge, including measuring, site inspection, & CAD drawings

Media Assistant (October 2020 - Present)

Villanova University Office of Student Involvement, Villanova, PA

- Manage various social media accounts for the Villanova University Office of Student Involvement including creating content
  - Customer service tasks related to phone calls, in person requests, and social media messaging
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## **Leadership & Activities**

Vice President (2022); Events Coordinator (2021); Class Representative (Fall 2020)

American Society of Civil Engineers - Villanova Student Chapter, Villanova, PA

- Led planning and organizing of frequent career development and project focused events with guest speakers
- Represent the class of 2024 and the civil and environmental engineering student body with faculty and staff of the University

Speaker of the Senate (March 2022 - Present); College of Engineering Senator (April 2021 - Present); Class of 2024 Senator (October 2020 - April 2021)

Villanova University Student Government Association, Villanova, PA

- Elected by the members of the Student Government Association Senate to serve as the leader of the legislative branch
- Elected to represent the entire College of Engineering in the thirty five member Student Government Association Senate
- Present legislation and information for the betterment of Villanova University as a voice of the student body