

Anthony Loh

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EDUCATION

Villanova University

Expected: May 2027

B.S. in Civil Engineering, Minor in Geography

Villanova, PA

- **Coursework:** Transportation Engineering; Remote Sensing; Geology for Engineers; Civil Engineering Fundamentals; Differential Equations with Linear Algebra, Hydraulic Engineering & Hydrology
- **Activities:** American Society of Civil Engineers; Globeplotters; Villanova Sports Analytics Club

RESEARCH EXPERIENCE

College of Engineering, Villanova University

Jan. 2026 – Present

Undergraduate Researcher

Villanova, PA

- Selected for the John Hennessy Undergraduate Research Fund; conducting a funded, 100-hour mentored project on Winter Storm Uri's (Feb. 2021) effects on mobility, healthcare access, and transportation equity across major Texas metros during the COVID-19 pandemic
- Analyzing mobility, healthcare visit, mortality, utility outage, and demographic datasets to identify infrastructure disruption and geographic disparities using GIS and statistical methods

WORK EXPERIENCE

Office of the Provost, Villanova University

Aug. 2025 – Present

Classroom Organizer

Villanova, PA

- Managed daily preparation of assigned buildings for instruction; identified and reported maintenance, AV equipment, and custodial issues to support uninterrupted campus operations

DoorDash and Uber Eats

Oct. 2025 – Present

Delivery Driver

Greater Philadelphia Area

- Completed time-sensitive deliveries across two platforms while managing a full academic course load; planned efficient routes and sustained high order accuracy and customer ratings

PROJECTS

Public Library and Learning Hub Geotechnical Report

Aug. 2025 – Present

- Co-authored a geotechnical design report evaluating fill suitability, settlement prediction, green infrastructure permeability, and retaining wall backfill for a proposed Pennsylvania public library
- Conducted ASTM-standard compaction, consolidation, hydraulic conductivity, and direct shear tests

Wetland Site Assessment and Path Redesign

Spring 2025

- Assessed stormwater wetland performance via chloride t-testing, flow rate reduction analysis, groundwater contour mapping, and cumulative probability plots
- Produced ArcGIS Pro and AutoCAD deliverables for an ADA-compliant path redesign

Hotel and Casino Project Development

Fall 2024

- Led site due diligence on a 262,000 ft² Philadelphia waterfront brownfield; analyzed FEMA flood zones, zoning regulations, wetlands, soil conditions, and Superfund proximity for a proposed \$73.9M hotel-casino complex
- Applied RS Means cost estimation across building, parking, landscaping, and earthwork categories; calculated cut/fill volumes from 80+ data points

CERTIFICATIONS & SKILLS

- **Technologies:** ArcGIS Pro, AutoCAD, R, Tableau, Fusion 360, Microsoft Office, Python
- **Skills:** Data analysis, statistical analysis, GIS mapping, technical report writing, site analysis, cost estimating