

Adalyn Long

Civil/Structural Engineering Co-op Student

📞 (312) 555-1234 ✉️ adalyn.long@email.com 🔗 linkedin.com/in/adalynlong 📍 123 Maple Street, Chicago, IL 60601

SUMMARY

Enthusiastic Civil Engineering student passionate about maximizing structural and civil engineering principles. Experience spans assisting with high-impact construction projects, including a substantial treatment plant. Committed to quality control, document management, and teamwork, ensuring safety and regulatory compliance at all times. Proven ability to effectively support material tracking, project inspections, and cross-disciplinary collaboration. Eager to contribute valuable insights during field engineering activities while enhancing skill set through hands-on experience. Excited to embrace new challenges, fostering growth both personally and for the organization.

EDUCATION

Bachelor's Degree in Civil Engineering

University of Illinois Chicago 🎓 GPA: 3.8 📅 2027 📍 Chicago, IL

Coursework: Structural Mechanics, Concrete Design, Fluid Mechanics, Environmental Engineering

TECHNICAL SKILLS

- **Software Tools:** AutoCAD, Civil 3D
- **Engineering Standards:** ASTM, AASHTO
- **Documentation Practices:** Technical Reporting, As-Built Documentation
- **Inspection Techniques:** Field Inspections, Progress Reporting, Safety Audits
- **Construction Materials:** Concrete, Steel, Recycled Aggregates
- **Analysis Methods:** Structural Analysis, Feasibility Studies
- **Project Management Tools:** Gantt Charts, Trello
- **Quality Assurance Systems:** Inspection Protocols, Quality Control Plans
- **Presentation Software:** PowerPoint, Prezi
- **Research Integration:** Data Analysis, Peer Review

SKILLS

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|-----------------------|----------------------|-----------------------|--------------------------------|
| • AutoCAD | • Project Management | • Document Management | • Engineering Principles |
| • Civil 3D | • Concrete Knowledge | • Field Engineering | • Technical Reporting |
| • Structural Analysis | • Site Inspections | • Material Selection | • Environmental Impact Studies |
| • Quality Control | • Team Collaboration | • Safety Practices | • Regulatory Compliance |

EXPERIENCE

Civil Engineering Intern

University Project 📅 September 2025 - December 2025 📍 Remote

Assisted in planning and executing a sustainable drainage system project within a team setting. Contributed detailed designs using AutoCAD and spearheaded field assessment efforts. Aimed to enhance practical knowledge in civil projects while supporting faculty-led initiatives ultimately benefiting research outcomes.

- Collaborated with team members to create a sustainable drainage plan, leveraging AutoCAD for schematic design.
- Conducted thorough assessments of existing drainage systems, documenting site conditions diligently for project improvements.
- Participated in selecting appropriate materials aligned with budget constraints while providing cost estimates efficiently.
- Supported quality assurance processes during construction phases by following strict adherence to safety protocols.
- Compiled progress reports and communicated updates clearly to stakeholders, aiming for transparency in the project's vision.
- Coordinated project responsibilities and timelines effectively in regular team meetings, facilitating collaborative success.

Research Assistant

Academic Research 📅 January 2026 - June 2026 📍 Remote

Examined the impact of recycled materials on structural integrity, contributing significantly to sustainable engineering methodologies. Collaborated closely with faculty on advanced experiments and data analysis pertinent to evolving civil engineering standards.

- Conducted experiments analyzing mechanical properties of recycled aggregates, delivering foundational insights for environmentally-conscious practices.
- Compiled & reviewed research findings critically, preparing manuscripts destined for publication to broad academic audiences.
- Developed presentation materials highlighting research achievements for dissemination at various academic conferences.

- Enhanced collaboration with interdisciplinary teams by refining methodologies to align with rigorously established academic criteria.
- Engaged in weekly reviews helping realign objectives and iteratively assess project milestones towards successful completion.

Capstone Project Developer

Course Project 📅 January 2026 - May 2026 📍 Remote

Led the initiative to construct an eco-friendly bridge prototype employing innovative materials. Kept close cooperation with peers and stakeholders throughout the development process to ensure design feasibility and ecological responsibility.

- Created comprehensive project plans focusing on sustainable construction techniques while integrating innovative materials selected for environmental benefits.
- Utilized Civil 3D for accurate modeling which provided rich visualizations promoting stakeholder buy-in for proposed designs.
- Invested time in assessing environmental impacts of the projected bridge design to align with local regulations effectively.
- Drafted extensive documentation for project proposals, attaining swift approvals from faculty oversights through solid reasoning and foresight.
- Facilitated community outreach sessions promoting strong public engagement beneficial for project acceptance and support.
- Delivered a final presentation well-received by experts, receiving accolades for creativity and robustness in idea execution.

LEADERSHIP & AWARDS

- Outstanding Research Contribution at University
- Leadership Award for Capstone Team Success

CERTIFICATIONS

- Fundamentals of Engineering 📅 2026
- AutoCAD Certified User 📅 2026

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers Membership
- Professional Engineers of Illinois Student Affiliate

LANGUAGES

- English (Native) • Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST