AIDEN KOWALCZYK

STRUCTURAL ENGINEER INTERN

CONTACT

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SKILLS

ETABS • SAP2000 • AutoCAD
Autodesk Revit
Structural Load Analysis
ASCE 7 Load Standards
Microsoft Excel
Technical Report Writing

EDUCATION

University of Texas at Austin

Austin, TX

Bachelor of Science

Sep 2021 - May 2025

Civil Engineering (Structural)

GPA: 3.8

LANGUAGES

English ●●●●●

Spanish ●●●○○

CERTIFICATES

OSHA 30-Hour Construction Industry Outreach Training Program

Jun 2020

OSHA Training Institute

Completed a 30-hour construction industry outreach training program, demonstrating knowledge of occupational safety and health standards

Autodesk AutoCAD Certification

Jan 2020

Autodesk Certified User

Earned certification in Autodesk AutoCAD, showcasing proficiency in 2D and 3D computer-aided design

SUMMARY

Detail-oriented Structural Engineer Intern pursuing B.S. in Civil Engineering at UT Austin with a 3.8 GPA. Completed summer internship at AECOM performing structural analysis on $12M commercial projects using ETABS and AutoCAD. Proficient in SAP2000 and Revit; eager to apply academic foundation to real-world structural design.

EXPERIENCE

AECOM — Austin, TX

Structural Engineer Intern — Jun 2024 - Aug 2024

Assisted senior engineers on commercial and mixed-use structural projects.

- Performed gravity and lateral load calculations for 3 commercial building projects totaling $12M in construction value
- Modeled 6-story office building in ETABS; identified beam over-stress condition reducing rework cost by $45K
- Assisted in producing 28 structural drawings in AutoCAD; all drawings passed senior engineer QC review on first submission
- Participated in 4 site visits to observe foundation installation and structural steel erection processes

UT Austin Department of Civil Engineering — Austin, TX

Undergraduate Research Assistant — Sep 2022 - May 2024

Assisted Professor Dr. Maria Flores with seismic behavior research on reinforced concrete frames.

- Collected and analyzed 340 data points from shake-table tests; contributed to 1 peer-reviewed conference paper
- Built finite element models in SAP2000 validating analytical predictions against experimental results within 8% error

PROJECTS

Team Leader

Seismic Design of a High-Rise Building — Jan 2022 - Jun 2022

Designed and analyzed a 50-story high-rise building in earthquake-prone regions, utilizing seismic design principles and codes

Autodesk AutoCAD • ETABS • SAP2000

Team Member

Bridge Inspection and Rehabilitation — Jun 2021 - Aug 2021

Conducted a comprehensive inspection of a highway bridge and developed a rehabilitation plan, incorporating advanced materials and techniques

Autodesk AutoCAD • BridgeInspect