

Ayden Logan

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SUMMARY

Early career construction and field surveying candidate with an Associate of Applied Science in Civil Engineering Technology completed in 2026 and supervised academic experience supporting highway construction, design review, inspection, surveying, materials testing, and transportation studies. Field labs developed practical ability with topographic surveys, staking, survey instruments, **survey file transfer, plans and specifications**, construction quantities, QA/QC records, and project documentation. Academic work included aggregate gradation, soil density, concrete testing, traffic control planning, roadway inspection, pipe backfill review, and **engineering calculations** for slopes, areas, volumes, cuts, fills, and material spread rates. Familiar with MUTCD principles, field safety near traffic and heavy equipment, computers, calculators, hand tools, and organized records. Prepared to obtain a **valid driver's license** and required QC/QA and AASHTO certifications through training.

EDUCATION

Associate of Applied Science in Civil Engineering Technology

2026

Casper College GPA: 3.5

Casper, Wyoming

Coursework: Highway surveying, construction inspection, materials testing, traffic control, engineering calculations

TECHNICAL SKILLS

- **Surveying Equipment:** Survey instruments, rods, tapes, stakes
- **Surveying Methods:** Topographic surveys, construction staking, control points
- **Survey Data:** Survey file transfer, field books, electronic files
- **Engineering Calculations:** Slopes, areas, volumes, cuts and fills
- **Materials Testing:** Aggregate gradation, soil density, concrete testing
- **Construction Inspection:** Roadway paving, pipe backfill, fill inspection
- **Quality Assurance:** QA/QC forms, test results, acceptance criteria
- **Traffic Control:** MUTCD, work zones, traffic control devices
- **Project Documentation:** Project records, estimates, reports, databases
- **Construction Tools:** Hand tools, calculators, computers, jackhammers
- **Transportation Studies:** Turning movements, pedestrian counts, roadway observations
- **Construction Standards:** Plans, specifications, contract changes, engineering formulas

SKILLS

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|---------------------------|-----------------------|----------------------------|---------------------------|
| • Field surveying | • Aggregate gradation | • Engineering calculations | • MUTCD |
| • Topographic surveys | • Density testing | • Plans and specifications | • Survey file transfer |
| • Construction inspection | • Concrete testing | • Project records | • Construction quantities |
| • Materials testing | • QA/QC documentation | • Traffic control | |

EXPERIENCE

Highway Construction Survey and Inspection Capstone

January 2026 - May 2026

Capstone Project

Casper, Wyoming

Completed supervised roadway construction simulation covering survey layout, inspection checkpoints, **materials testing, traffic control**, engineering calculations, and project records. Presented organized field books, test documentation, calculations, and inspection findings for faculty review.

- Established control points using stakes, hubs, rods, tapes, and instruments for roadway layout.
- Transferred survey files and checked topographic observations against simulated design criteria.
- Calculated slopes, areas, volumes, cuts, fills, and material quantities with spreadsheets.
- Performed **aggregate gradation**, soil density, and concrete sampling exercises with **QA/QC** forms.
- Reviewed paving, fill, and pipe backfill work against **plans and specifications**.
- Prepared inspection records, **test results**, field notes, and a final project summary.

Construction Materials Testing Student Technician

August 2025 - December 2025

Student Lab

Casper, Wyoming

Supported supervised laboratory instruction in soils, aggregates, asphalt, and **concrete testing**. Maintained samples, tools, records, calculations, and QA/QC reports while building safe, organized testing habits.

- Conducted supervised soils, aggregate, asphalt, and concrete laboratory exercises using prescribed methods.

- Evaluated **aggregate gradation** data against classroom acceptance criteria and recorded observations.
- Practiced **density testing** for earthwork and surfacing simulations with safe equipment handling.
- Prepared concrete samples and organized test documentation for QA/QC review.
- Used computers and **calculators** for engineering computations, spread rates, tables, and **reports**.
- Maintained tools, sample **areas**, and laboratory records in orderly condition.

Traffic Control and Transportation Studies Project

January 2025 - May 2025

Course Project

Casper, Wyoming

Completed supervised transportation studies project focused on temporary traffic control, MUTCD concepts, roadway observations, field counts, scoping notes, quantity calculations, and construction recommendations.

- Designed temporary **traffic control** layout for a simulated roadway work zone using MUTCD concepts.
- Sequenced placement, inspection, maintenance, and removal of traffic control devices.
- Collected turning movement and pedestrian observations for a transportation field report.
- Reviewed sample roadway plans and prepared scoping notes and quantity calculations.
- Built electronic files containing field notes, calculations, forms, and revised reports.
- Presented survey findings, field procedures, traffic observations, and recommended next steps.

PROJECTS

Highway Construction Survey and Inspection Capstone 📅 2026

Supervised roadway simulation combined topographic surveying, staking, construction inspection, materials testing, QA/QC documentation, calculations, and review of plans and specifications.

Traffic Control and Transportation Studies 📅 2025

Supervised study applied MUTCD concepts, temporary traffic control planning, field observations, quantity calculations, scoping notes, and transportation recommendations.

LEADERSHIP & AWARDS

- Dean's List, 2025, recognized for strong academic performance at Casper College.
- Outstanding Civil Engineering Technology Capstone Presentation, 2026, honored for clear technical communication.
- Construction Technology Academic Achievement Scholarship, 2025, awarded for academic achievement.

CERTIFICATIONS

- OSHA 10 Hour Construction 📅 2026
- Introduction to Construction Quality Assurance 📅 2026

PROFESSIONAL AFFILIATIONS

- Civil Engineering Technology Peer Study Group Coordinator, 2025 to 2026, supported classmates through organized review sessions.
- Student Surveying Field Day Team Lead, 2026, coordinated field activities and shared survey procedures.
- Campus Service Project Volunteer, 2025 to 2026, contributed dependable support during campus service activities.

LANGUAGES

- English (Native)
- Spanish (Beginner)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST