

Luka Harrison

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SUMMARY

Principal Engineer and licensed Professional Engineer with eight years of progressive civil and transportation engineering experience across highway design, construction administration, field inspection, **quality control**, contract management, and project closeout. Leads engineers and technicians on roadway, bridge, maintenance, drainage, and municipal infrastructure work while balancing technical requirements, budgets, schedules, safety, and public commitments. Applies **highway geometrics**, **hydraulic design**, soil engineering, **construction practices**, plans and specifications, quantity documentation, payment review, change orders, claims resolution, consultant oversight, and cost estimating. Builds practical agreement among agencies, utilities, landowners, contractors, consultants, and communities. Develops staff through technical instruction, performance feedback, SOPs, and disciplined project controls. Brings sound PE judgment to design reviews, feasibility studies, material testing, surveys, submittals, regulatory coordination, and signed engineering deliverables.

EXPERIENCE

Senior Project Engineer, Highway Construction

July 2024 - Present

Summit Corridor Engineering

Cheyenne, WY

Directs concurrent highway reconstruction, bridge rehabilitation, maintenance, and municipal street projects from design development through final records. Leads technical staff, **contract administration**, field quality programs, stakeholder coordination, and project controls.

- Directed highway and bridge delivery from design development through **final project records**.
- Led **field inspections**, surveys, **laboratory testing**, material analysis, and quality control reviews.
- Reviewed plans, **specifications**, submittals, estimates, and constructability details for approval decisions.
- Negotiated **change orders** and contractor claims using field records and contract documents.
- Coordinated utilities, landowners, consultants, local governments, and federal partners on project impacts.
- Mentored engineers and technicians through training, feedback, staffing input, and technical guidance.

Project Engineer, Transportation Infrastructure

June 2022 - June 2024

High Plains Infrastructure Group

Casper, WY

Managed roadway and drainage design with construction support, consultant oversight, stakeholder coordination, and value engineering. Converted **technical studies**, field conditions, and project requirements into coordinated plans, estimates, and defensible recommendations.

- Managed roadway and drainage designs integrating geometrics, hydraulics, soils, and **construction** needs.
- Prepared studies, plan sets, **special provisions**, quantities, estimates, and maintenance summaries.
- Monitored consultant **surveys**, engineering deliverables, invoices, progress, and technical quality.
- Resolved access, staging, right of way, and utility conflicts with public stakeholders.
- Evaluated **submittals** and field conditions, then documented design clarifications and changes.
- Supported **value engineering** reviews comparing constructability, lifecycle effects, schedule, and cost.

Civil Engineer II, Public Infrastructure

June 2020 - May 2022

Frontier Civil Works

Laramie, WY

Advanced roadway, site, drainage, and public works assignments from survey information through bid ready documents under PE oversight. Supported construction inspection, quantity control, technical communication, and agency coordination across active infrastructure projects.

- Developed roadway, site, drainage, and public works documents under PE oversight.
- Performed quantity takeoffs, estimates, hydraulic calculations, geometric checks, and technical summaries.
- Inspected paving, earthwork, drainage, concrete, and utility work against **specifications**.
- Maintained **payment** records, measured quantities, testing results, field changes, and closeout documents.
- Coordinated survey crews, laboratories, contractors, property owners, and public agencies.
- Presented technical constraints and project alternatives during internal reviews and **public meetings**.

Civil Engineer I, Transportation Projects

June 2018 - May 2020

Prairie State Engineering

Gillette, WY

Supported transportation and municipal infrastructure work through drafting, calculations, field observations, survey coordination, construction records, and early agreement research. Built core engineering judgment while supporting senior staff on design review and closeout.

- Supported transportation projects through drafting, calculations, observations, surveys, and documentation.
- Checked roadway geometry, drainage, quantities, and plan details against **design criteria**.
- Compiled inspection notes, laboratory results, certifications, and daily reports for payment support.
- Researched property, utility, water, and material sources for project agreements.
- Reviewed contractor questions and submittals, routing technical issues with supporting evidence.
- Reconciled quantities and record documents during project closeout activities.

PROJECTS

Interstate Reconstruction and Bridge Rehabilitation 📅 2025

Coordinated design review, field quality control, contract documentation, change order analysis, and stakeholder communication for major transportation improvements.

Roadway Drainage and Value Engineering Program 📅 2023

Compared geometric, hydraulic, soil, construction, schedule, and lifecycle alternatives for cost effective roadway and drainage delivery.

LEADERSHIP & AWARDS

- Technical Mentor, Transportation Engineering Development Group, 2024 to Present
- Internal Training Lead, Construction Documentation and Contract Administration, 2025 to Present

EDUCATION

Bachelor's Degree in Civil Engineering

2018

University of Wyoming GPA: 0

Laramie, WY

Coursework: Highway geometrics, hydraulic design, soil engineering, construction practices

CERTIFICATIONS

- Professional Engineer, Wyoming 📅 2023
- Professional Engineer License 📅 2023

TECHNICAL SKILLS

- **Highway Design:** Highway geometrics, roadway design, bridge design
- **Hydraulic Engineering:** Hydraulic design, drainage design, hydraulic calculations
- **Geotechnical Engineering:** Soil engineering, soil information, material analysis
- **Construction Administration:** Construction inspection, contract administration, project closeout
- **Quality Control:** Field inspections, laboratory testing, quality control
- **Contract Controls:** Change orders, claims resolution, contractor payment
- **Project Estimating:** Cost estimating, quantity calculations, budget planning
- **Technical Documents:** Plans, specifications, special provisions
- **Surveying Services:** Field surveys, consultant surveying, survey coordination
- **Regulatory Coordination:** DEQ, BLM, USFS
- **Stakeholder Engagement:** Public meetings, utility coordination, landowner coordination
- **People Leadership:** Technical training, mentoring, performance management
- **Project Planning:** Schedule monitoring, feasibility analysis, value engineering
- **Engineering Governance:** SOP development, technical policies, design criteria
- **Professional Practice:** PE stamping, engineering recommendations, technical studies

SKILLS

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|----------------------------|--------------------------|----------------------|---------------------|
| • Professional engineering | • Hydraulic design | • Surveying | • Change orders |
| • Highway construction | • Soil engineering | • Laboratory testing | • Claims resolution |
| • Contract administration | • Construction practices | • Material analysis | • Cost estimating |
| • Highway geometrics | • Field inspection | • Quality control | |

PROFESSIONAL AFFILIATIONS

- Transportation Engineering Development Group, technical mentoring and staff development
- Construction Documentation and Contract Administration training community, internal instruction

LANGUAGES

- English (Native)
- Spanish (Beginner)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST