

Luka Harrison

Principal Engineer, Highway Construction

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STRENGTHS

- ✔ **Field quality leadership**
Field teams received clear direction on inspections, testing, quantities, and records, keeping construction decisions grounded in evidence.
- 🔧 **Contract judgment**
Change order reviews connected contract language, field facts, quantities, and schedule effects, helping stakeholders reach defensible resolutions.
- 💬 **Technical communication**
Public meetings became easier to follow after complex design constraints were translated into practical impacts and clear alternatives.
- 👥 **Staff development**
Engineers and technicians gained useful coaching through hands on instruction, feedback, assignments, and steady exposure to larger decisions.
- 🔗 **Project coordination**
Utilities, agencies, landowners, consultants, and contractors found a common path through access, staging, and service conflicts.

SKILLS

Professional engineering
Highway construction
Contract administration
Highway geometrics
Hydraulic design Soil engineering
Construction practices
Field inspection Surveying
Laboratory testing
Material analysis Quality control

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

Summit Corridor Engineering 📅 July 2024 - Present 📍 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

High Plains Infrastructure Group 📅 June 2022 - June 2024 📍 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

Frontier Civil Works 📅 June 2020 - May 2022 📍 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.

Cost estimating

Spanish Beginner

A donut chart with a white center and a blue ring. The center contains the text "8.1 YEARS". The blue ring represents approximately 8.1% of the total.

8.1
YEARS

- Civil Engineer I, Transportation Projects at Prairie State Engineering (1.9 Years)

- 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**.

Prairie State Engineering June 2018 - May 2020 Gillette, WY

- 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.

Interstate Reconstruction and Bridge Rehabilitation 📅 2025

Roadway Drainage and Value Engineering Program  2023

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

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

Bachelor's Degree in Civil Engineering

University of Wyoming  GPA: 0  2018  Laramie, WY

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

- 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

PROFESSIONAL AFFILIATIONS

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

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST