

Lauren Fitzgerald

OSP Engineer

Denver, CO • (720) 555-0145 • lauren.fitzgerald@email.com
linkedin.com/in/laurenfitzgerald

SUMMARY

OSP engineer with 8 years of outside plant design for fiber to the home, enterprise and wireless backhaul networks in Colorado and Wyoming. Designs fiber routes in AutoCAD and ArcGIS, leads make-ready engineering and pole loading analysis, and secures permits from cities, counties, railroads and state DOTs.

SKILLS

- OSP Design
- Fiber Network Design
- AutoCAD
- ArcGIS
- Make-Ready Engineering
- Pole Loading Analysis
- Permitting
- Google Earth
- Excel
- Communication Skills

EXPERIENCE

OSP Engineer 01/2022 - Present
Rocky Ridge Network Engineering Denver, CO

Senior outside plant engineer for a telecom engineering consultancy.

- Design **1,100** route miles of aerial and underground fiber for 4 FTTH and middle-mile programs.
- Produce make-ready engineering and pole loading analysis for 9,000 poles, meeting NESC clearances.
- Secure 220 right-of-way, railroad and DOT permits, cutting average approval time from 75 to 48 days.
- Review contractor redlines and update as-builts in ArcGIS, keeping network records 98% accurate.

OSP Designer 05/2019 - 12/2021
Front Range Fiber Design Lakewood, CO

Designer on fiber to the home and business projects.

- Drafted splice diagrams, fiber assignments and construction prints in AutoCAD for **35,000** FTTH passings.
- Walked 600 miles of route with Google Earth and field collection apps to verify pole and conduit data.
- Estimated material and labor in Excel for 45 projects, staying within 5% of final cost.

Engineering Technician 06/2018 - 04/2019
Cheyenne Telecom Services Cheyenne, WY

Field and mapping technician for a rural telephone company.

- Collected pole and strand data on **3,000** poles for make-ready and attachment applications.
- Mapped copper and fiber plant in ArcGIS for 2 rural telephone exchanges.
- Prepared permit drawings for 25 county road crossings and 4 creek bores.

EDUCATION

Bachelor of Science 05/2018
Colorado State University Fort Collins, CO
Construction Management

CERTIFICATES

Outside Plant Designer (OSP)
BICSI
06/2023

Certified Fiber Optic Technician (CFOT)
The Fiber Optic Association
03/2019