

Eric Knigge, PE

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SUMMARY

Professional engineer with experience in the energy and transportation infrastructure sectors, delivering complex, high-profile projects. Supervisory, operational, and project management experience in the public sector, with a technical background in civil engineering, project management, and software development.

EXPERIENCE

Snohomish PUD

2022 - Present

Transmission Engineer

- Manage transmission projects from \$30k-\$7M through the full lifecycle. Planning, design, permitting, material procurement, construction, and closeout.
- Utilize PLS-CADD and available information sources such as LIDAR, survey data, and engineering drawings to build system models. Validate and iterate designs to ensure they meet or exceed all regulatory, design, structural, and project constraints.
- Updated transmission asset management program to include electronic information collection, centralizing data from multiple sources into a system of record, and created system dashboards for managing and tracking key metrics.

Washington State Department of Transportation (WSDOT) 2018 - 2022

Transportation Engineer IV

- Supervised Toll Division operations team tasked with annual revenue collection exceeding \$200M. Worked with vendors to maintain systems and resolve revenue collection issues.
- Oversaw interagency and internal contracts with a biannual budget over \$2M.
- Delivered operational improvement projects of varying sizes, \$50-500k. Drafted and revised change orders and managed the delivery of new statements of work.
- Directly supervised a team of 3 engineers, 2 technicians, and 2 interns. Scheduled and disseminated work, mentored team, and provided updates to leadership.
- Developed and revised operational policies including Standard Operating Procedures (SOPs), Concept of Operations (CONOPS), business rules, and engineering standards.

Transportation Engineer III

2018 - 2022

- Provided technical support in the design and development of Intelligent Transportation Systems (ITS), specifically tolling projects. Responded to RFIs, conducted inspections, and coordinated construction activities with stakeholders.
- Tracked work progress, validated invoices, and reviewed technical deliverables.

Transportation Engineer WSDOT. Engineer I (2012-2013), Engineer II (2013-2015)

EDUCATION

Seattle College, Seattle | *Application Development (BAS)*

2024

University of Washington, Seattle | *MSCE*

2015

University of Washington, Seattle | *BSCE*

2012

SKILLS & INTERESTS

Transmission Design PLS-CADD, Microstation, NESC, SAP/ERM, Microsoft BI, GIS

Software Development Python (Pandas, NumPy), SQL, Java, Javascript, Bash

Project Management Public Works Contract Administration, Build/Manage Schedules (MS Project, Primavera, etc.), Risk Assessment, Cost Estimation.