

Patrick Mahedy, P.E.

(Moving for spouse's job, available to start in New York City June 2022)

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SKILLS

Skills: Traffic Signal Design/Operations, Intelligent Transportation Systems, Plans Specifications & Estimate (PS&E) Development and Review, Technical Project Management, Construction Inspection, Network Design, Systems Engineering, Asset Management, Data Management, Maintenance, Public Relations

Certifications: Oregon PE 90141PE., Oregon Certified Traffic Signal Inspector, IMSA Fiber Optics for ITS

Software: Microstation/Projectwise, MS Project, Synchro, ArcGIS, AutoCAD, NWS Voyage, Q-Free Maxtime

EXPERIENCE

Oregon Department of Transportation – Portland, OR

Traffic Signal Manager – Asset Manager

May 2018 – Present

- Manage timing and coordination of 100+ traffic signals on major arterial highways.
- Review plans for signal phasing, detection setup, interconnect design, and operational considerations.
- Track ongoing construction, configure 30+ radar detectors, work with maintenance crews to inspect electrical elements, and manage on-site turn on of 10+ new traffic signals.
- Manage intersection documentation and respond to varied Agency and Public requests.

DKS Associates – Portland, OR

Oct 2015 – May 2018

Transportation Engineering Assistant

- Designed projects under the supervision of an Engineer of Record for intelligent transportation systems, traffic signal, illumination, signing, and pavement markings PS&E for multiple jurisdictions in Oregon and SW Washington.
- Acted as the main point of contact for construction services of various projects.
- Delegated tasks to newer staff and reviewed their work.

OSU Capital Planning and Development – Corvallis, OR [Part-time]

Jun 2013 – Jun 2015

Geospatial Information Systems Student Analyst

- Researched in the campus archive and created GIS datasets for the age of all structures on campus, assessor data for all land holdings, and a database of all geotechnical bore logs.

PROJECTS

Automatic Traffic Signal Performance Measures (ATSPMs) Signal Detection Standard Update

Led the update of statewide traffic signal detection layout standards to support collection of ATSPMs. Reviewed other Agency's standards, selectively modified best practices to work with existing design/maintenance practices, field tested, and collaborated with the Statewide Traffic Signal Engineer to institutionalize the new standard. (2018-2021)

Advanced Traffic Signal Controller (ATC) Project

Led grant application to Regional government, received, scoped, and selected consultant to convert timings at 90+ intersections. Collaborated with coworkers internally to develop a process for converting existing NWS Voyage traffic signal timing to Q-Free Maxtime. Installed controllers in the field. (2018-2022)

Advanced Transportation And Congestion Management Technologies Deployment (ATCMTD) OR212-224

Directed PS&E development of 20+ traffic signal modifications to install radar detectors to collect ATSPMs. Managed scope of this federally funded project's overlap with multiple other projects. (2019-2022)

Transportation Improvements Generating Economic Recovery (TIGER) Portland Region

Tracked acceptance testing of fiber optic cabling for active traffic management and arterial traffic signal communications networks, attended construction meetings, and approved materials. (2017-2018)

EDUCATION

Oregon State University (OSU) – Corvallis, OR

2010 – 2015

B.S. Civil Engineering, focus in Transportation

LEADERSHIP AND ACTIVITIES

Institute of Transportation Engineers, Co-organizer 2018, 2019 Winter Workshop, 2018 Quad Conference Technology Tuesday Lead

Elected Member-at-Large, OSU Student Incidental Fees Committee