

# Kurt G. Larson, PE, PTOE

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Summary	With more than 20 years of experience, Mr. Larson has a well-rounded technical career with roadway/geometric design, intelligent transportation systems, traffic signal design, maintenance of traffic plans, municipal traffic engineering, traffic impact studies, safety studies, and transportation planning. Over the last ten years, Mr. Larson has been involved in marketing, organizational management, leadership and strategy development and implementation.		
Professional Registrations/ Affiliations	Professional Civil Engineer/ Utah (1992), California (1993), Nevada (1993) and Texas (1998)  Institute of Transportation Engineers American Society of Civil Engineers		
Education	1984 - 1985	Brigham Young University	Provo, UT
	Masters of Engineering Management-Civil Engineering		
	1980 - 1984	Brigham Young University	Provo, UT
	Bachelor of Science-Civil Engineering		
Professional History	2001 - Present	City of Salt Lake City	Salt Lake City, UT
	Transportation Operations Manager		
	2000 - 2001	Entranco	Salt Lake City, UT
	Transportation Group Manager		
	1998 - 2000	BRW, Inc.	Salt Lake City, UT
	Vice President		
	1995 - 1998	Boyle Engineering Corporation	Fresno, CA
	Transportation Leader		
	1993 - 1995	TJKM Transportation Consultants	Fresno, CA
	Branch Manager		
	1990 - 1993	TJKM Transportation Consultants	Sacramento, CA
	Project Manager		
	1985 - 1990	City of Salt Lake City	Salt Lake City, UT
	Deputy Transportation Engineer		
	1984	Chilton Engineering	Elko, NV
	Project Engineer		

## Representative Experience

### Transportation Design

- Relieving traffic congestion through design, Mr. Larson has performed engineering to provide plans, specifications and probable construction estimates for transportation design projects.

### Roadways

- Project Manager/Designer for the 6200 South Widening and Reconstruction project from Redwood Road to 4000<sup>th</sup> West in Taylorsville, Utah. The project provided a five-lane roadway section along the project corridor.
- Project Manager for the northern section of the roadway design for the "Initial Phase" of the I-15 North project which added one new lane on northbound and southbound I-15 between the I-215 interchange in North Salt Lake and the US-89 interchange in Farmington - approximately ten miles.
- Project Engineer for roadway design on the UTA Trax West/East Preliminary Engineering Project in Salt Lake City, Utah.
- Project quality oversight on the 10600 South Widening and Reconstruction project from 1000 East to 1300 East in Salt Lake County, Utah.
- Project Manager/Designer for the SR-43/Floral Avenue/SR-99 On-Ramp Project in Selma, California.
- Project Engineer for SR-101 Rose Avenue Over crossing Project in Oxnard, California.

### Traffic Signals

- Project Manager/Engineer for the US-89 and 750 West traffic signal design in Harrisville, Utah and the 5600 South and 2050 West traffic signal design in Roy, Utah.
- Project Manager/Designer for the SR-53 (24<sup>th</sup> Street) and I-15 NB off-ramp signal design in Odgen, Utah.
- Project Manager for the 6100 South and 300 West traffic signal design in Murray, Utah.
- Traffic Signal Designer for the 1000 East/Carnation and 106<sup>th</sup> South intersection traffic signal in Salt Lake County.
- Project Manager/Designer of forty-two signalized intersections for the UTA Trax West/East Preliminary Engineering project in Salt Lake City.
- Quality Reviewer and/or Signal Designer for numerous signal projects through out California.

### Intelligent Transportation Systems

- Local Project Manager for the design of the fiber optic communications system along Main Street in Roy, Utah.
- Project Manager for design of CCTV, VMS, traffic count stations and ramp metering locations for the freeway section through Parley's Canyon, Utah.
- Project Manger for CCTV, VMS, and traffic count station design for the Silver Creek Junction and Kimball Junction projects.
- Quality Reviewer of ITS components/design for the I-19/Velencia Road Interchange project in Tucson, Arizona.

### Street Lighting

- Project Manager/Designer for Salt Lake City street lighting conversion from mercury vapor illumination to high pressure sodium vapor illumination.
- Project Manager/Designer for the decorative lighting on Main Street in the City of Porterville, California as part of the Porterville Streetscapes project.
- Engineering designer of street lighting for numerous traffic signal designs and construction installations through out Utah and California.

### Traffic Operations/Transportation Planning

- Solving real world problems, Mr. Larson has worked with a wide variety of professionals—government leaders, land developers, architects, lawyers and others to plan transportation systems.

### Traffic Impact Studies

- Project Manager for the Marriott Assisted Living Center Traffic Study in Provo, Utah. The project included trip generation, trip distribution, existing and future traffic impacts. Mitigation measures to overcome traffic capacity impacts.
- Project Manager for the Victory Road Traffic Study in Salt Lake City, Utah. The purpose of the study was to analyze possibly changing the pattern of the southbound truck traffic on Beck Street from the adjacent GEOdyne/BECK site. The study included current traffic volumes, geometrics, intersection level of service analysis, queue lengths, accident history, and other elements noted from field review.
- Project Manager for Madera College Center, Madera County, California. This project studied project impacts to the SR-99/Avenue 12 interchange and adjacent frontage roads. The project consisted of a gas station with convenience market and car wash, three fast food establishments, a hotel and recreational vehicle overnight parking. This study recommended mitigation measures designed to improve circulation and provide adequate capacity at critical locations and determined the project impact to critical study intersections and recommended a future project study report for the interchange.
- Project Manager for Neighborhood Commercial Center, Fresno County, California. This study evaluated six critical intersection locations and recommended mitigation measures to improve circulation and provide adequate capacity. The proposed project consisted of neighborhood commercial development on a 9.2-acre site.
- Project Manager for Aquarian Homes Development traffic impact study, Riverbank, California. This study recommended mitigation measures designed to improve circulation and provide adequate capacity at critical locations and determined the project impact to seven study intersections. The project proposed construction of 650 single-family dwelling units.
- Project Engineer for Sacramento Medical Center Proposed Master Plan, Sacramento County, California. This traffic study evaluated Options I and II of the proposed master plan. Recommendations to improve area local intersection operation and internal circulation for the medical facility was addressed in this study.
- Project Manager for Eureka Road - Roseville Parkway Alignment Study, Placer County, California. This study conducted a circulation impact evaluation of two alignments for connections for Roseville

Parkway and Eureka Road east of Sierra College Boulevard.

#### Parking Studies

- Project Manager for California State University Fresno Parking and Alternative Transportation Study, Fresno, California. This study provided the assessment of parking conditions and recommended improvements to parking when the University full time student equivalent increased from 20,000 to 25,000.

#### Project Study Reports (PSR) for Caltrans/Design Study Reports (DSR) for UDOT

- Project Manager for the preliminary engineering and environmental documents for the 6200 South Widening and Reconstruction project from Redwood Road to 4000<sup>th</sup> West in Taylorsville, Utah. Mr. Larson provided geometric layouts, traffic analysis, and environmental documentation for the design study report.
- Leucadia Boulevard/I-5 Interchange Project Study Report, Encinitas, California. Preliminary engineering and environmental documents for the interchange are required for this project. Provided geometric layouts, summary of traffic analyses, and determination of three alternatives for project study report. Extensive Caltrans involvement is required for this project.
- Mr. Larson provided project management for preliminary engineering and environmental documents for the State Route 198 Operational Analysis and Long-Range Plan in Visalia, California, for the six interchanges between Mooney Boulevard and future interchanges at Road 148. He was responsible for providing geometric layouts, traffic analysis, and the determination of four alternatives for the project study report.
- Mr. Larson has provided numerous design study reports for traffic signal and design projects for UDOT.

#### Environmental Impact Statements/Reports

- I-15 Major Investment Study/Environmental Impact Statement; Salt Lake and Davis Counties, Utah. Quality Reviewer on this multi-modal MIS/EIS, from downtown Salt Lake City to Kaysville in Davis County. His role was to review travel demand components of the plan. The travel demand and transit analysis is key to developing a defensible purpose and need for this sensitive corridor.
- Mr. Larson was the Project Manager for State Route 198/State Route 41 Interchange and Environmental Impact Study at the NAS Lemoore in Lemoore, California. This traffic circulation study reviewed impacts to the interchange and nine local arterial intersections. Roadway improvements and signal installations were recommended to mitigate the traffic impacts caused by future growth of the Naval Air Station.
- For the Leucadia Boulevard/I-5 Interchange Project Study in Encinitas, California, Mr. Larson was responsible for preliminary engineering and environmental documents for the interchange, provided geometric layouts, traffic analyses, and the determination of three alternatives for the project study.

#### Access Management

- Project Engineer for preparation of an Access Management for Industrial Park Area Master Plan for the City of Hanford, California,

covering a 5-square mile area. Work included access management planning for arterial and industrial roadways, water supply and distribution facilities, sewage collection system and evaluation of relocating a portion of the existing city wastewater treatment plant to outside of the industrial park, storm drainage, and other facilities.

#### Traffic Accident Analysis

- Project Engineer for Caltrans District 6 High Accident Location Study, Fresno, California. This study provided mitigation measures for high accident locations within the Caltrans District 6 geographic area.
- Project Manager for Traffic and Accident Analysis of Highway 49, Salmon Falls Road, Lotus Road and Cold Springs Road, El Dorado County, California. This project examined and ranked the above roadways according to traffic safety requirements. Suggested improvements and corrective actions were reported.

#### Expert Witness

- Mr. Larson represented Fresno County in the case of County of Fresno v. Ernest Bedrosian, et al. Expert court testimony was provided with video presentations, engineering calculations, cost analysis, and professional engineering judgment.
- Mr. Larson represented Fresno County in the Eminent Domain combined cases of Fresno County v. Victor Packing and Fresno County v. Kazarian Properties. Expert court testimony was provided with video presentation of truck turning movements, traffic calculations, civil engineering design, cost analysis and professional engineering judgment.

Community  
activities

Volunteer Community Outreach presenting Civil Engineering profession to school children in Granite, Jordan, Park City and Salt Lake School Districts.