

Luke Liu

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Summary — Nineteen (19) years of consulting and agency experience in transportation planning, engineering, technology deployment and operations and maintenance.

Experience

City of Ann Arbor, MI

Jul 2015 – present

Transportation Engineer, Interim Transportation Manager

- Managed a group of 19 staff members on budget, staff advisory and task delivery. Areas include transportation engineering, technology deployment, planning, and system operations and maintenance. Ensure project alignment with City policy and master plan. Represented City transportation in engagement with stakeholders, advisory bodies and internal and external clients.
- Served as technical expert on the proposal and deployment of ITS applications, connected vehicle technology and adaptive traffic signals to better service multimodal and vulnerable users, special event operations and research needs.
- Initiated and scoped transportation planning/engineering tasks, funding source, grant application, and staff members for project delivery, implementing City's comprehensive transportation plan.
- Planned and prepared Transportation Commission agenda items and meeting materials. Facilitated discussions at public commission meetings.
- Maintained and updated sustaining transportation engineering programs, such as neighborhood traffic calming, school traffic calming, and speed management.
- Coordinated staff and conducted reviews of development project site plans and construction plans.
- Oversaw the Signs and Signals team for operations and maintenance budget, task delivery and asset maintenance.
- Represented City transportation in engagement with external agencies and organizations, and served as technical expert on state level.

Wayne State University, Civil & Environmental Engineering

Jan 2024 – May 2024

Adjunct faculty, part time, 45 lecture hours per year

- CE7620, Traffic Engineering Control and Operations

Washtenaw County Road Commission

Mar 2015 – Jul 2015

Senior Project Manager – Traffic & Safety

- Served as Traffic and Safety team leader and coordinated task delivery in areas of central traffic signal system, traffic operations, traffic safety, and response to internal and external customer requests.

Western Michigan University, Civil & Construction Engineering

Jan 2014 – Dec 2016

Adjunct faculty, part time, 45 lecture hours per year

- CCE5520, Highway Design Principles
- CCE6110, Traffic Operations and Management

URS Corporation / AECOM

Mar 2007 – Mar 2015

Traffic Engineer

- Served as technical lead, task manager and project manager for projects in the areas of traffic operations, traffic safety, transportation management center operations and transit operations.
- Balanced workload and projections and developed business operation analysis tool for office management.
- Maintained and expanded client base with high quality project delivery, due diligence for upcoming work, outreach events, proposal and statement of qualifications development and new technology applications.

Knowledge

- Extensive knowledge in technology deployment, transportation planning, engineering, and operations and maintenance, with focus on active transportation and safety measures.
- Thorough understanding of relevant laws, regulations, and codes. Familiarity with the legal aspects of professional service agreements and contracts.

Skills

- Set priorities and coordinate multiple assignments to meet critical deadlines effectively, even under pressure.
- Demonstrated strong oral and written communication skills, effectively conveying policies and procedures to various stakeholders.
- Capability to act independently on technical matters and implement strategic objectives effectively.
- Prepare clear and understandable technical reports tailored to diverse audiences. Conduct public engagement on complex and potentially controversial transportation topics, facilitating community understanding.
- Prepare compelling grant funding applications to secure financial resources for transportation initiatives.

Education

Georgia Institute of Technology <i>Online Master of Science in Computer Science</i>	Aug 2024 – Present
University of Michigan <i>Master of Applied Data Science, did not graduate</i>	Apr 2023 – Jul 2023
Michigan State University <i>Doctor of Philosophy, Civil Engineering</i>	Jan 2004 – May 2007
University of Nebraska-Lincoln <i>Master of Science, Civil Engineering</i>	Sept 2002 – Dec 2003
Tongji University, Shanghai, China <i>Bachelor of Science, Transportation Engineering</i>	Sept 1998 – May 2002

Licenses and Certifications

Professional Engineer <i>State of Michigan, #55581</i> <i>State of Ohio, #71447</i>	<i>since 2008</i> <i>since 2006</i>
Professional Traffic Operations Engineer <i>Transportation Professional Certification Board, #2431</i>	<i>since 2008</i>