Stephen Landry, P.E., State Traffic Engineer

MaineDOT

OBJECTIVE

Use the knowledge and experience I have gathered in previous positions to advance my professional career, apply those skills to promote public/private partnerships and create synergy among stakeholders to facilitate diverse economic development opportunities in Maine. I strive to achieve win/win outcomes in complex situations, apply fairness in my decision-making, effectively communicate the core mission of my employer through my interactions with legislators, municipal officials, state officials, the business community, and members of the general public.

SUMMARY OF QUALIFICATIONS

RELEVANT WORK EXPERIENCE – MAINEDOT

2001- 2004 – Lead a working group to design a closed loop Traffic signal system (14 signals) in the Maine Mall Area in South Portland. The project included advanced dilemma zone protection and transit Priority.
2007 – Lead an effort to design a closed loop traffic signal system ((13 signals) on Western Ave in Augusta, ME. project including fiber interconnect
2011 - Lead an effort to design a closed loop traffic signal system (18 signals) on Kennedy Memorial Drive and Main ST in Waterville, ME. project including fiber and radio interconnect as well as APS.
2018 – Overseeing a group responsible for design of 104 traffic signals over 11 communities as part of a BUILD grant application. Project includes ATC controllers, ATC cabinets, hybrid roadside units (DSRC/cellular/CV2X), new signal detection, communications and 4 corridors of adaptive signal technology. Project is currently under construction
2020 - Overseeing a group responsible for design of 43 traffic signals over 39 communities as part of an ATCMTD grant application. Project includes ATC controllers, hybrid roadside units (DSRC/cellular/CV2X), new signal detection, communications and 4 corridors of adaptive signal technology. Project design is currently being finished
2022 – Leading an effort with a developer to design of 18 traffic signals along two corridors in the town of Scarborough. Project includes ATC controllers, ATC cabinets, hybrid roadside units (DSRC/cellular/CV2X), new signal detection, communications and both corridors will receive adaptive signal technology. Phase 1 of the project is currently under construction.

EDUCATION

UNIVERSITY OF MAINE AT ORONO — 1981 - 1986

BACHELOR OF ARTS GEOLOGICAL SCIENCES

CERTIFICATIONS

CERTIFIED PROFESSIONAL ENGINEER, STATE OF MAINE, LICENSE # 7930. — SPRING 1994

ENGINEER IN TRAINING LICENSE, STATE OF MAINE, LICENSE # 3480 — SPRING 1990

Colby Fortier-Brown

CONTACT

Colby.fortier-brown@maine.gov
(207) 441-5079
24 Child Street
Augusta, Maine 04330

PROJECT OBJECTIVE

I aim to actively assist with all stages of the Statewide Connected Vehicle Hazard Notification Project. I will participate by providing staff management, technical specification review, operational requirement development, and eventually system operation and maintenance. I will best be able to contribute using skills gained working in and managing MaineDOT's ITS group. I will specifically be able to leverage the experience of coordinating innovative and modernized RWIS and communications projects.

EDUCATION

University of Maine (2015)
B.S. BioEngineering;
Minor Business Administration

Operations Academy (2021)
Senior Management Program

CITE (2022)
Traffic Signal Operations

CERTIFICATIONS

Maine Professional Engineer (2021)
Transportation Engineering
PE #16843

PROFESSIONAL WORK EXPERIENCE

MAINE DEPARTMENT OF TRANSPORATION

- Assistant Engineer / Assistant Transportation Engineer – 11/2018-06/2021
- Transportation Engineer II – 06/2021-04/2023
- Assistant State Traffic Engineer – 04/2023-Present

MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION

- Assistant Engineer – 02/2016-11/2018

RELATED TECHNICAL PROJECT EXPERIENCE

STATEWIDE INTELLIGENT TRANSPORTATION SYSTEMS (ITS)

Managing a group that deploys, operates, and maintains of a fleet of roadside equipment used for Transportation System Management and Operations (TSMO).

TRANSPORATION MANAGEMENT CENTER (TMC)

Managing the TMC and overseeing all related projects and system developments/upgrades, including a redevelopment of the ATMS.

TRAFFIC SIGNAL UPGRADES / CONNECTED VEHICLE SYSTEM DEPLOYMENTS

Assisting with the deployment of connected vehicle technology at 140+ traffic signals, using standardized technology, and responsible for operations post-deployment and testing.

COMMUNICATIONS INFRASTRUCTURE + MAINE CONNECTIVITY AUTHORITY WORK

Completed a statewide communications infrastructure evaluation that included a statewide broadband collaboration strategy, a cyber security review, and the formation of a state government Broadband Working Group.

Acted as a shared staff member with Maine Connectivity Authority in 2022, assisting with agency formation/planning, cross-agency collaboration process formation, Middle Mile planning, and the development and execution of the agency's first grant program, Jumpstart Connectivity. Jumpstart Connectivity awarded grants to wireless broadband projects that used 3GPP technology on both licensed and unlicensed spectrum (CBRS) and one project using both unlicensed spectrum and non-standard technology (Tarana Wireless).

ROAD WEATHER INFORMATION SYSTEM (RWIS) PROJECTS

Performing technical management of ongoing installations of stationary and mobile RWIS systems, including the integration of RWIS data into MaineDOT's ATMS and the implementation of new road weather forecasting processes that are used by crews to inform treatment plans.

Completing a research-based planning study for optimal RWIS density and location in Maine, based on climate modeling, traffic patterns, and crash history.

RELATED EXTERNAL INVOLVEMENT

AURORA PROGRAM; ROAD WEATHER REASEARCH POOLED FUND

- Maine's representative and participate in research teams.
- Project champion for "Integration of Connected Vehicle and RWIS Technology."

FEDERAL HIGHWAY ADMINISTRATION; EVERY DAY COUNTS (EDC)

- Member the national implementation team for the EDC-6 initiative, Crowdsourcing for Advancing Operations.

AASHTO

- Member of AASHTO CTSO's Leadership team
- Co-Chair for CTSO's Operations Implementation Working Group

Luke Anthony Lorrimer P.E.

126 Cobb Road, Turner, ME 04282
Mobile: (207) 522 - 4907
Email: L_Lorrimer@hotmail.com

Education

Lancaster University, England - Master of Engineering (MEng) July 2003
Professional Engineer License - State of Maine December 2017

Relevant Experience

As an ITS engineer for MaineDOT I have been heavily involved in the scoping, installation and maintenance of ITS equipment and software including RWIS and Advanced warning signs (hard-wired and radio operated). I designed the triggering system for Maine's dynamic wrong way signs including a feedback mechanism to the TMC to confirm wrong way incidents. I oversaw the installation and testing of Maine's first RSU/CV unit in a pedestrian crosswalk in Orono. I oversee the remote connections to all ITS devices whether it is through a cell network or a connection using cable or fibre.

CEII/TEII, ITS, MaineDOT, 24 Child Street, Augusta, 04333
12/2017 - Current

- Scoping and Preparing ITS Projects
    - Preparing special provisions for items that are outside the standard specifications
    - Selecting locations for ITS equipment
    - Defining the ITS equipment, including communications, to be used based on conditions
- Reviewing and improving State ATMS to produce automated responses to set conditions
- Overseeing BUILD project for signal upgrades, reviewing equipment submissions, final acceptance testing and CV testing

Assistant Engineer, ITS, MaineDOT, 66 Industrial Drive, Augusta, 04333
05/2013 – 12/2017

- Installing, repairing, and maintaining ITS equipment
    - Repairing and maintaining CMS boards
    - Upgrading and installing wrong way detection systems
    - Maintaining communications with remote sites
    - Monitoring over height vehicle detectors
- Writing specifications for new equipment to go out for bid
- Developing new roadside technologies (dynamic wrong way system)
- Designing and delivering short training presentations for the use of ITS equipment

Technician, Traffic Counts, MaineDOT, 24 Child Street, Augusta, 04333
August 2012 – May 2013

- Updating the processing method to increase efficiency
- Processing count data returned by the count teams
- Monitoring the permanent count sites

Engineer (various grades) GL Noble Denton, Holywell Park, Loughborough, England, LE11 3GR
Jan2005 -Febuary 2012
During my time at GL Noble Denton I want from a lab tester to graduate engineer to engineer to senior engineer involved in research and testing of end of network devices

Brooke Glidden, Assistant Transportation Engineer

Maine DOT
24 Child Street
Augusta, ME 04330
(207) 441-7541
Brooke.Glidden@maine.gov

Detail oriented and thorough Intelligent Transportation System Assistant Transportation Engineer with 4 years of experience at Maine DOT and 9 years of construction inspection experience on Maine DOT highway and bridge projects. Construction projects ranged from highway reconstruction and overlays to bridge rehabilitations and new construction.

Education

University of Maine at Orono, 2010 - 2014
B.S., Civil and Environmental Engineering, Minor in Construction Management

Project Experience

Maine Department of Transportation. *Assistant Transportation Engineer – November 2019 to Present*

Statewide Traffic Signals ATCMTD Grant Project (2023 – Present) – Traffic Signal Upgrade Project where Maine DOT is upgrading and taking over 43 intersections in several communities throughout Maine. The intersections are receiving upgraded cabinets and equipment inside the cabinets. The project is in very early stages of construction. Brooke have been involved with reviewing equipment submittals and RFI's. Both the ATCMTD and BUILD Grant Project have Cellular/CV2X technology that Brooke has been involved with setting up and testing.

Statewide Traffic Signals BUILD Grant Project (2021 – Present) – Traffic Signal Upgrade Project where Maine DOT is upgrading and taking over 104 intersections in several communities throughout Maine. The intersections are receiving new traffic signal controllers, video detection, advanced detection, preemption, connected vehicle technology, along with new signal equipment. The signals are connected and integrated into a system that can be remotely monitored and receive alerts when alarms in the cabinet are set off. Brooke got involved with the project when construction started. She has been included in reviewing submittals and RFI's, along with quality control testing of the signal cabinets prior to installation and operation on the street. Then monitoring alarms for the cabinets post installation. The project is now into Phase III. Brooke has been monitoring Phase I signals and troubleshooting issues as they arise in preparation for MaineDOT to fully take these over upon project completion.

I-95 High Level Bridge Part Time Shoulder Use Project (2021 – Present) –Design Build Project with Maine DOT, New Hampshire DOT, Maine Turnpike Authority, and the Contractor/ their designer. This project runs roughly 4 miles north and southbound on I-95 from New Hampshire to Maine, converting the shoulder to a travel lane during peak traffic times to alleviate congestion, improve safety, and enhance mobility. Traffic will be monitored using sensors and will alert the Transportation Management Center Operators when certain criteria are met to open and close the shoulder for travel. Brooke has been involved with this project from early design phases, reviewing plans and submittals. Construction has now started and expected to be completed May 2023.

I-295 Communication Infrastructure Project (2021 – Present) – Worked with a consultant to evaluate current communications practices at Maine DOT. Develop a statewide broadband expansion strategy. Convene expansion partners and to design a broadband buildout around I-295. Brooke has been part of the group meeting with the consultant and reviewing materials put together for guidance on expanding the ITS communication infrastructure along I-295.

Miscellaneous MaineDOT Tasks – Writing specifications for ITS projects and reviewing signal equipment submittals for other MaineDOT projects. Working on temporary traffic signal timing and specifications for MaineDOT Projects. Conducting training on MaineDOT Traffic Signal topics and other ITS equipment.

Kleinfelder. *Class 3 Construction Inspector – May 2014 to November 2019*

Sarah Mildred Long Bridge Replacement Project (2015 – 2018) – Construction of a new bridge with an improved alignment for ship traffic on the Piscataqua River. The half mile long bridge includes 4 vertical precast concrete towers and a lift span that services trains, vehicles, and ships. Brooke was the lead for quality assurance of the pre-cast towers and the mechanical/ electrical work within the bridge to operate the lift span. This included the control room which bridge operators monitor vehicle traffic on the bridge and ship traffic 24/7.

Daniel Garber, Assistant Transportation Engineer

Maine DOT
24 Child Street
Augusta, ME 04330

(207) 592-2280
Daniel.J.Garber@maine.gov

Reliable and meticulous Intelligent Transportation System Assistant Transportation Engineer with 2 years of experience at Maine DOT, all in ITS. At Maine DOT I have been involved in the bench testing and field testing of devices for the BUILD and ATCMTD projects. In addition to working in quality assurance and control for signals, I maintain the signal assets in the state system.

Education

University of Maine, Orono, Maine
B.S., Mechanical Engineering

Work Experience

Maine Department of Transportation. *Assistant Transportation Engineer*

Statewide Traffic Signals BUILD Grant Project

The build grant includes replacing or enhancing 104 traffic signals statewide. These new signal systems have adaptive technology and are receiving new equipment including signal controllers, video detection, advanced detection, preemption, and connected vehicle technology. The signals are connected to a system that can be remotely monitored.

- Implementing quality control at bench testing prior to cabinet installation.
- Completed Field testing after installation of new signal cabinets & systems to assure proper performance and calibration of controller, detection, and other devices.
- Monitors the system remotely to ensure continued functionality of the system.
- Updates asset management system with new signal information and municipality maintenance agreements.

Miscellaneous

- Wrote various specifications for devices going out to bid as well as assisting in writing contracts for ITS services.
- Led trainings on how to install and program speed zone signs and made an online training tutorial.
- Utilized Tom-Tom to write traffic reports analyzing the impact of new traffic signal timings.
- Joined, by request, a charter organized by the Commissioner of the Department and led by the Chief Engineer and State Traffic Engineer. The purpose of the charter is to analyze and change the way MEDOT sets speed limits based on context and increase traveler safety. As part of this charter, I lead a sub-group researching human psychology in regard to why people speed, how to get them to choose not to speed, and how to reduce speeding subconsciously.

Trainings and Workshops

- Ops Academy
- Traffic School: Every year Maine DOT hosts a training on traffic signals and everything involved in their planning, installation, and maintenance as well as functionality of different designs, equipment, and software.
- TETC CAV Working Group: New signals will likely have to interact with CAVs. This working group discussed what approaches each state is taking and how best to prepare for the future of transportation.
- ITS America 2023