

**HALUK LAMAN****Engineer II**

Haluk Laman has a Ph.D. in transportation engineering, and over 7 years of experience in the field of traffic/safety engineering and transportation planning. He has earned his Doctorate and Masters in Civil Engineering with a specialty in Traffic Systems Engineering from the University of Central Florida. Haluk brings his experience from managing three major FDOT projects that worked in traffic impact analysis, data analytics with advanced statistical models in travel demand models and traffic safety, ITS technology deployment and evaluation. His background includes working with ArcGIS for macro level transportation planning projects and VISSIM for traffic micro-simulations. He has also been involved in 50+ transportation engineering projects in the last 7 years.

**GSC ITS, Central Florida Expressway Authority**

Leading the LiDAR program of THI investigations, preparing semi-annual reports with data processing and analysis. Providing review support for the Wrong Way Driving program and technology development. Preparing monthly travel time and operational reports of CFX roadways. Developed the CFX guidelines for RTMC. Crash analysis and economic estimates for dynamic curve warning systems. Providing analysis support on rapid incident clearance system program.

**GEC, Florida's Turnpike Enterprise**

Provided ITS, Signing and Pavement Markings design support on Pompano Beach widening project. Preparation of Veterans Bridge Rideability Memorandums. Provided design support on widening project of Atlantic Blvd. to Wiles Rd. by preparing cross-sections.

**AAM, FDOT D5**

Provided support on dashboard updates of monthly corridor performance data collection and review. Signal timing development, implementation and fine-tuning field visits.

**GEC, FDOT D5 / In-House Consultant**

In-House Consultant Engineer responsible for Traffic Ops. services –Provide QC support for technical memorandums/reports of Qualitative Assessments, Crash Studies, Speed Studies, Safety Studies. Perform architectural review of Scope of Services and Units to assist Owner with negotiations. Close-out Traffic Ops. study packages by preparing the letters with all enclosures to the corresponding jurisdictions based on the technical memorandums. Provide signing and pavement marking designs on pushbutton safety projects. Provide technical reviews and prepare responses to developers on permit packages for Access Management. Prepare MOT Plans for Railroad Crossing Ways.

**HALUK LAMAN****Firm**

HNTB Corporation

**Education**

PhD, Civil Engineering, 2016, University of Central Florida, Orlando, FL  
 M.S., Civil Engineering, 2012, University of Central Florida, Orlando, FL  
 B.S., Civil Engineering, 2009, Cukurova University, Adana, Turkey

**Professional Affiliations**

American Society of Highway Engineers  
 American Society of Civil Engineers – Member  
 Cultural Student Association, UCF – President

**Hire Date with HNTB**

4/24/17

**Years of Experience with other Firms**

6

**Start – End Date:** 9/2017-8/2018

## PRIOR PROJECT EXPERIENCE

Life Expectancy of Traffic Signs, Florida Department of Transportation (FDOT), Central Office, FL - Assistant PI who did the preparation of interim and final reports for the geostatistical approaches that were used for predicting retro-reflectivity measures from district sign inventory databases.

**Start – End Date:** 1/2015-2/2017

**Cost:** \$360,000

**Client Reference:** Mr. V.Y. "Trey" Tillander III, P.E., Manager, State Program Management Office, Contact: (850) 414-4140, trey.tillander@dot.state.fl.us

HALUK LAMAN

---

Road Ranger Courtesy Patrol Analysis, Florida Department of Transportation (FDOT), Central Office, FL - Assistant Project Manager who evaluated the effectiveness of road rangers based on traffic incident durations using discrete choice models and preparation of interim and final reports.

**Start – End Date:** 1/2016-9/2016

**Cost:** \$150,000

District 5 Research Project, Florida Department of Transportation (FDOT), District 5, FL - Assistant Project Manager dealing with an innovative traffic data collection technology deployment for Origin-Destinations of heavy vehicles. Required many field visits for equipment installations. Preparation of interim and final reports.

**Start – End Date:** 1/2013-12/2016

**Cost:** \$450,000

**Client Reference:** John Zielinski, PE, District 5 SIS Coordinator, Contact: (407) 482-7868, john.zielinski@dot.state.fl.us

Civil Engineering, Building Teknik Construction Company, Turkey – Engineer responsible for multi-story buildings' on-site construction inspection for spot checks of work in progress. Preparing technical project reports, evaluating construction progress and identifying solutions for potential problems. Perform structural analysis for multi-story buildings based on AISC, ACI and ASCE codes using software SAP 2000. Performed complex structural analysis of high rise buildings under complex loading conditions and preparing structural drawings using AutoCAD based on the analysis results. Managed change orders and estimates to meet dynamic construction project requirements.

**Start – End Date:** 1/2009-5/2010

Graduate Research Assistant, University of Central Florida, Orlando, FL – Research in injury severity analysis of heavy vehicle involved traffic crashes with advanced discrete choice models. Development of a life cycle assessment of real-time truck re-routing under incident induced congestion with VISUM. Travel delay analysis on

rush hours for I-4, I-75 and I-95 corridors by using VISSIM micro simulation software and safety analysis with implementing Surrogate Safety Assessment Model (SSAM) to find potential conflict points. Geometric design of a traffic network that consists of freeway, arterials, and collectors based on AASHTO (6th Edition). Research on regional adaptation of the current Highway Safety Manual and young drivers' behavioral studies.

Exploratory analysis on freeway traffic incidents in Central Florida merging with RITIS speed data. Traffic signal design study by using Highway Capacity Software (HCS) based on MUTCD requirements. Leading an innovative UCF project which utilizes location based social network data with data analytics on GIS, ultimately supplementing transportation planning models by predicting dynamic urban land uses.

**Start – End Date:** 1/2011 - Present

HALUK LAMAN

---

**Client Reference:** Dr. Amr Oloufa, PE, Professor, Contact: (407) 823-3592, Amr.Oloufa@ucf.edu

#### Technical Software Skills

- ArcGIS (with Python scripting), - PTV VISSIM (with Visual Basic scripting), VISUM, CORSIM, HCS
- MicroStation (GeoPak, InRoads), AutoCAD.
- SAS, R, SPSS, STATA, GAUSS statistical programming languages.
- Expert knowledge of ArcGIS applications in transportation planning and design.
- Traffic impact analysis of corridors, intersections, or networks with micro-simulation tools (i.e. PTV VISSIM).
- Data analytics with advanced statistical modeling (i.e. discrete choice approaches) in travel demand models.
- Highway Capacity Manual (HCM, HCS), Highway Safety Manual (HCS) and Highway Design Manual (HDM) applications.

#### ACADEMIC PUBLICATIONS/PRESENTATIONS

1. **H. Laman**, S. Yasmin, and N. Eluru. *“Joint Modeling of Traffic Incident Duration Components (Reporting, Response, and Clearance Time): A Copula Based Approach.”* Transportation Research Records Journal of Transportation Research Board, (18-03310), 2018.
2. **H. Laman**, S. Yasmin, and N. Eluru. *“Using Location Based Social Network Data for Activity Intensity Analysis: A Case Study of New York City”*, Transportation Research Records Journal of Transportation Research Board, (19-01510), 2018.
3. Oloufa, A. A., and **H. Laman**, *“Assessment of Travel Delay, Value-of-Time and Potential Safety Impacts of Truck Route Diversion using VISSIM Micro-Simulation Model”*, Transportation Research Records Journal of Transportation Research Board, (19-04514), 2019.

4. Oloufa, A. A., and **H. Laman**, “Automated Data Collection for Origin/Destination Studies of Freight Movement”, Phase 1, Accession Number: 01664311, TRB TRID, 2014-10.
5. Oloufa, A. A., and **H. Laman**, “Automated Data Collection for Origin/Destination Studies of Freight Movement”, Phase 2, Accession Number: 01664321, TRB TRID, 2017-10.
6. C. Quinn, J. Easterling, K. B. DeLuca, S. Zornek, **H. Laman**, and H. Al-Deek “Applied Wrong Way Driving Countermeasures”, ITS America, 2018.
7. Mohamed, A., **H. Laman**, A. Oloufa, and H. Abou-Senna. “A Framework for Assessing the Impacts of State Level Platooning Truck Only Lane Strategies in Florida”, Transportation Research Board 97<sup>th</sup> Annual Meeting, Washington DC, USA. (18-05914), 2018.
8. **H. Laman**, Y. Alassaf, A. A. Oloufa, and J. Zielinski, “Automated Capture of Freight Origin/Destination Data using License Plate Readers”, University Transportation Center Conference for the Southeastern Region, 2013.
9. **H. Laman**, “A Framework for Assessing the Sustainability Impacts of Truck Routing Strategies.” (Ph.D. Dissertation, University of Central Florida – Orlando, Florida), 2016.
10. **H. Laman**, “A Comprehensive Severity Analysis Of Large Vehicle Crashes.” (Master of Science Thesis, University of Central Florida – Orlando, Florida), 2012.

HALUK LAMAN

---