

## David Samba, P.E., PTOE, PTP, RSP1, RSP2B

### *Mobility Engineer and Planner*

David is a professional engineer with 12 years of experience covering multimodal transportation operations, design, planning, and parking operations throughout Virginia, Maryland, and Virginia. David has worked on and has led many large-scale multimodal and complete streets efforts, and bicycle and pedestrian safety studies. As a professional traffic operations engineer, David has experience analyzing traffic impacts of multimodal design as well as developing mobility solutions that considers pedestrian, transit, and bicyclist movements. His experience also includes managing complex municipal and private developer parking studies, community corridor evaluations, federal funding grant applications, and consulting support for the development of benefit cost analyses. David has coordinated and led many diverse community engagement meetings with the purpose of provided project updates and soliciting community feedback.

## EDUCATION

Master of Science, Transportation Planning, University of Virginia, 2010

Bachelor of Science, Civil Engineering, University of Virginia, 2008

## REGISTRATIONS AND CERTIFICATIONS

Professional Engineer in Maryland and Virginia

Road Safety Professional 1

Professional Traffic Operations Engineer

Road Safety Professional 2, Behavioral

Professional Transportation Planner

## PUBLICATIONS

Samba D, Park B (Brian), Gardner B. **Evaluation of Large-Truck Transportation Alternatives with Safety, Mobility, Energy, and Emissions Analysis**. Transportation Research Record. 2011;2265(1):34-42. doi:10.3141/2265-04

Samba, D., and Park, B. **Probabilistic Modeling of Inclement Weather Impacts on Traffic Volume**. Presented at 89th Annual Meeting of the Transportation Research Board, Washington, D.C., 2010.

## PROFESSIONAL AFFILIATIONS

Institute of Transportation Engineers (ITE)

American Planning Association

Assistant Area Director, WDCSITE

Conference of Minority Transportation Officials

Equity Committee Volunteer, ITE

National Society of Black Engineers

## PROFESSIONAL EXPERIENCE

### Project Manager – Kimley-Horn – 12/16 to current

As a project manager, David directly pursues, markets, and manages a variety of complex transportation planning efforts. David serves as a trusted advisor to municipal agencies and provides consulting services to identify the challenges and opportunities of current and future multimodal transportation. This includes direct supervision of analysts, leading public engagement, and developing innovative solutions to solve today's transportation concerns. David also participates in financial and economic performance modeling of multimodal projects. Notable assignments include:

- Potomac Yard Small Area Plan, Alexandria
- Old Town North Multimodal Transportation Study, Alexandria
- Maple Avenue Multimodal Transportation and Land Use Corridor Study, Town of Vienna
- Commuter Choice Program, Northern Virginia Transportation Commission
- Core of Rosslyn Transportation Study, Arlington Virginia
- Benning Road 2021 Raise Grant Benefit Cost Analysis, DDOT (awarded \$15M)
- Silver Spring Parking Study, MCDOT
- Vision Zero Garage Safety Study, MCDOT

### Professional Engineer – Kimley-Horn – 12/12 to 12/16

As a professional engineer, David served as task manager on a variety of large-scale transportation planning efforts. This included direct supervision of analysts and facilitating project update meetings with Clients and the general community. Under the supervisor of senior transportation planners, David led transportation studies that supported area planning documents. Notable assignments included:

- US Route 50 Corridor Study, Loudoun County
- Oakville Triangle and US Route 1 Small Area Plan, Alexandria
- Arlington County Off-Street Parking Performance Study, Arlington County

#### Analyst – Kimley-Horn – 09/10 to 12/12

As a transportation analyst at Kimley-Horn, David conducted transportation data collection activities in support of planning projects. David's typical duties included analyzing multimodal travel patterns for public and private sector clients and assisting in the development of technical reports. David also served as an environmental analyst conducting desktop due diligence to support the preparation of NEPA documents. Notable assignments included:

- Columbia Pike Multimodal Street Improvements Transportation Study, Arlington County
- MoveDC, District of Columbia Long Range Transportation Plan, DDOT
- Innsbrook Traffic Impact Analysis, Richmond, Va

## SELECTED PROJECTS

**Long-Range Multimodal Transportation Plan (moveDC), Washington, DC** — Project Engineer. In partnership with DDOT, Kimley-Horn prepared the District of Columbia's multimodal long-range transportation plan. This plan provides short-, mid-, and long-term transportation system investment guidance for DDOT, helping to support important city initiatives and goals. The plan includes recommendations for an integrated multimodal transportation system for the District of Columbia offering a multitude of travel choices for all trip types. The transportation plan provides recommendations at corridor, neighborhood, and citywide scales for all modes of transportation—pedestrians, bicycles, vehicles, and transit. David assisted with the preparation of socioeconomic and demographic mapping and analyses of the District's diverse population. He also developed and facilitated interactive public engagement activities at the moveDC Ideas Exchange, the project's visioning and goal setting symposium.

**Adams Morgan Historic Hotel Traffic and Parking Study, Washington, DC** — Project Engineer. Kimley-Horn prepared transportation studies associated with the Adams Morgan Historic Hotel. This involved the redevelopment and construction of a hotel at the site of the Christian Science Church in Adams Morgan. Kimley-Horn's services included the preparation of a traffic study, a parking management study, and a study of service vehicle operation and on-site circulation. In part, the study analyzed existing vehicle and pedestrian volumes, projected future trips generated by the hotel during late-night hours, and capacity at study intersections. These analyses served as the basis for approval by the District of Columbia Zoning Commission.

**Town of Vienna, Maple Avenue Corridor Multimodal Transportation and Land Use Study, VA** — Project Manager. Kimley-Horn is assisting the Town of Vienna with a multimodal transportation study of the Maple Avenue corridor through the Town of Vienna. This study is be coordinated with ongoing land use planning, redevelopment, and rezoning of properties in the Maple Avenue Commercial (MAC) overlay zone. As part of the study Kimley-Horn, is developing set of near- and mid-term recommendations along Maple Avenue for all modes of transportation in coordination with existing and future land uses along the corridor. The study process will involve engaging the public; evaluating existing transportation conditions; development of future traffic volumes, evaluating future transportation conditions; identifying and evaluating near- and mid-term transportation recommendations; and preparing cost estimates and a prioritized implementation plan. David serves as project manager and is responsible for communicating results with Town Council, engaging the public at outreach events, and preparing the overall transpiration study.

**Arlington County, Columbia Pike/Washington Boulevard Interchange Modification Report (IMR) Study, Arlington County, VA** — Project Manager. Kimley-Horn assisted the Arlington County Department of Environmental Services with an interchange modification report (IMR) to document the impacts of realigning the east end of Columbia Pike (Route 244), including the modification of the Columbia Pike/Washington Boulevard (Route 27) interchange near the Pentagon. This IMR involved the development of future year (2020 and 2040) traffic volumes using data provided by VDOT and the County for the study interchange. Once these traffic volumes were finalized and the methodology was approved by VDOT, the analysis of the interchange improvement concepts were initiated using Synchro and VISSIM. David served as the project manager and lead engineer for this project. David was responsible for day to day coordination with the County's project manager and led the modeling, analysis, and documentation efforts.

**Columbia Pike Multimodal Street Improvements, Arlington County, VA** — Project Engineer. Kimley-Horn completed a multimodal transportation study, environmental documentation, public involvement process, and preliminary design for street improvements along the 3.5-mile length of Columbia Pike. David's responsibilities included in-depth multimodal level of service analysis for bicyclists, pedestrians, transit riders, and motorists using CompleteStreetsLOS, a transportation evaluation tool based on updated 2010 Highway Capacity Manual methodologies. In his analysis, David created innovated techniques for comparing and reporting the level of service for alternate transportation modes. David's other responsibilities included writing the multimodal transportation study and coordinating with both the project

management team meetings as well as meetings with the Columbia Pike implementation team, a citizen-driven group with vested interest in Columbia Pike.

**Sherwood Hall Lane Road Diet, Fairfax County, VA** — Project Manager. Kimley-Horn performed engineering services on behalf of Fairfax County to design pavement marking and signing plans for Sherwood Hall Lane. The pavement marking plans reallocated the use of on-street space along the 1.8-mile length of Sherwood Hall Lane between US Route 1 and Fort Hunt Road. The existing cross section was redesigned to include bike lanes, wide shared-use lanes with sharrows, and two-way left-turn medians where appropriate. Kimley-Horn also designed the signage plan for new postings associated with the proposed on-street bicycle facilities.. David conducted a field review of the corridor to verify existing conditions, prepared the concept design plans, and participated in a public engagement effort to refine the concepts using input from the community.

**George Washington University (GWU), Master Facilities Plan, Washington, DC** — Project Manager. Kimley-Horn, as part of a team, is working with George Washington University to update their facilities master plan. The university is seeking a re-visioning and alignment of its two campuses with the strategic plan. Kimley-Horn prepared an assessment of the existing transportation network, identified gaps and opportunities, and developed concept recommendations for multimodal improvements that supported planned campus changes. Kimley-Horn supported the development of a streetscape master plan to program safe and accessible spaces for pedestrians, bicyclists, and motorists. David conducted a transportation assessment of two campus and developed mobility improvement concepts related to new or redesigned campus facilities. He also supported the development of a streetscape master plan.

**Arlington County, On-Street Parking Occupancy Studies, VA** — Project Manager. David led the Kimley-Horn team that provided services to assist Arlington County with collection of parking data (occupancy, space turnover, and length of stay) on an hourly basis on a typical weekday from 8:00 a.m. to 12:00 a.m. for every street in Arlington County within the Clarendon, Columbia Pike, and Virginia Hospital Center study areas. Kimley-Horn's scope of work included parking data collection and data analysis. The data collected was used to inform potential modification to the residential parking program and parking restrictions and pricing along metered blocks.

**Arlington County, Off-Street Parking Wayfinding, Arlington, VA** — Project Manager. Under an on-call contract, Kimley-Horn is providing professional consulting services to evaluate and update the recommendations of the 2011 Wayfinding Signage Plan to support the county's plan for visible, concise, and consistent wayfinding signage. The identified areas include Ballston, Virginia Square, Courthouse, Shirlington North, and Shirlington South. Kimley-Horn's scope of work includes inventorying public parking garages, developing a wayfinding signage layout plan, coordinating with Business Improvement District (BID) stakeholders, summarizing findings in technical report, and developing an opinion of probable cost. David coordinated the field data collection effort and developed the concepts for the initial wayfinding plan, including sign placement and messaging. David also led the outreach effort to the BIDs.

**City of Alexandria, Del Ray Neighborhood Parking Study, VA** — Project Engineer. Kimley-Horn helped the City of Alexandria develop a neighborhood level parking strategy for the Del Ray neighborhood, which is located along Mount Vernon Avenue. As part of the study, Kimley-Horn collected and analyzed parking occupancy and turnover data throughout the area, and developed specific recommendations to help better manage parking in support of local businesses and residents. Recommendations included shared parking strategies, curb lane uses along Mount Vernon Avenue, phased parking management decisions, including paid parking, enforcement strategies, and marketing and branding campaigns. David led the field data collection task and created GIS maps of parking occupancy and turnover.

**Rochester Inner Loop North Transformation Study, Rochester, NY** — Project Engineer. Kimley-Horn is part of a study to build upon the Rochester 2034 plan to help transform the inner loop area of the City. The current Inner Loop Expressway cuts historic and disadvantaged neighborhoods off from the rest of the City and impedes development of a multimodal network. The focus of the Inner Loop Transformation is to create great streets, foster economic growth, and create welcoming open space. David is leading the benefit cost analysis of the preferred alternative to demonstrate to the community the value of the redevelopment and to prepare for future federal funding applications.

**University of Maryland – College Park, Parking and Mobility Master Plan, MD** — Project Engineer. David is conducting a transportation, parking, and mobility study to support long-term campus planning. David is supporting public outreach efforts and facilitating on-campus surveys and focus groups.

**Multimodal Circulation Study, and Parking Study for Forest Glen Annex, MD, Montgomery County, MD** — Project Manager. Kimley-Horn provided professional engineering services to the Military Surface Deployment and Distribution Command, Transportation Engineering's (SDDC-TEA) to prepare a comprehensive transportation study for United States Army Garrison Fort Detrick-Forest Glen Annex. The study included an analysis of internal and external roadways; the development of a Transportation Management Plan (TMP) and Transportation Demand Management (TDM) strategies;

an assessment of existing on-site parking and the development of a parking management plan; a multimodal circulation study; and review of planned installation traffic engineering projects. David served as the project manager and facilitated the coordination between parking, TMP, site circulations, and project design teams. David also led the traffic operations analyses and secure access and perimeter design efforts related to this project.