

NATHAN BARNETT

ASSOCIATE



Nathan recently joined Connetics and is working on various transit planning studies, with an emphasis on Comprehensive Operational Analyses, Transit Development Plans, GIS analysis and graphics program applications.

Employment History

Connetics Transportation Group, Inc.

2010-present
Associate

Enterprise Innovation Institute, Georgia Institute of Technology (Atlanta, GA)

2009-2010
Graduate Research Asst.

Glatting Jackson Kercher Anglin (Orlando, FL)

2008
Transportation Planner Intern

Education

B.S., Civil Engineering,
Georgia Institute of Technology,
Atlanta, GA, 2007

M.S., Civil Engineering,
Georgia Institute of Technology,
Atlanta, GA, 2010

M.S., City & Regional Planning,
Transportation Planning,
Georgia Institute of Technology,
Atlanta, GA, 2010

Professional Memberships

American Planning Association
Georgia Planning Association
Institute of Transportation
Engineers, Georgia Chapter

Mr. Nathan Barnett is the newest addition to Connetics Transportation Group and has quickly gained industry experience. Mr. Barnett is presently working on an expanded Transit Development Plan for Charlottesville, Virginia, and a System Plan and Alternatives Analysis for Tulsa, Oklahoma. Mr. Barnett's work efforts on those projects, as well as work efforts with prior projects and firms are described below.

CORRIDOR/NEW STARTS PROJECTS:

Marshalls Creek Traffic Alleviation Project PennDOT (Marshalls Creek, PA)

To help alleviate congestion in a heavily constrained corridor, the Pennsylvania Department of Transportation (PennDOT) contracted with Glatting Jackson to help assess community needs and address causes and solutions to traffic congestion along US Route 209 in eastern Monroe County. While at Glatting Jackson as a Transportation Planner intern, Mr. Barnett was responsible for graphical representation of existing conditions, and assisted in a demographic, economic, and travel and transportation analysis of Monroe County area and surrounding counties, all of which was utilized in a report to the client.

SYSTEMS PLANS:

System Plan and Alternatives Analysis Tulsa Transit (Tulsa, Oklahoma)

The System Plan and Alternatives Analysis is a groundbreaking public transportation plan for the Indian Nations Council of Governments (INCOG) area and will explore a variety of operating modes including bus rapid transit and light rail. As part of the system plan, a thorough evaluation of existing bus operations and identification of future bus service opportunities is being completed. Tasks include a review of existing fixed route bus service, a general assessment of Tulsa Transit in comparison to peer bus systems in other locations, and preparation of near-term and long-range future service plans. Mr. Barnett has been heavily involved in assisting with the reporting and documentation of transit information to Tulsa Transit. Mr. Barnett helped compile existing operations and service data for Tulsa Transit through National Transit Database data, documented a comparison of peer transit agencies, and has assisted with the creation and documentation of detailed profiles of Tulsa Transit's routes. Mr. Barnett will also assist with the near-term and long-range future service plan recommendations.

BUS SERVICE STUDIES:

Transit Development Plan Virginia Dept. of Rail and Public Transportation & Charlottesville Area Transit (Charlottesville, Virginia)

Connetics Transportation Group has completed Transit Development Plans (TDP's) for numerous Virginia transit agencies under an on-call services contract with the Virginia Department of Rail and Public Transportation (DRPT). For Charlottesville Area Transit (CAT), Mr. Barnett has been thoroughly involved with the expanded TDP. Mr. Barnett assisted in the development, implementation, management and analysis of its ridecheck and on-board surveys; analyzed and presented latent demand analysis for the Charlottesville area through use of data from the local Metropolitan Planning Organization; and illustrated existing conditions and proposed changes through GIS analysis.

Transportation Development Plan (TDP)

Northwest Arkansas Regional Planning Council

Mr. Barnett worked extensively on a TDP that will guide service growth for the Ozark Regional Transit (ORT) and Razorback Transit in Northwest Arkansas. Mr. Barnett completed a latent demand analysis that identified areas within the Benton and Washington Counties that are underserved or unserved. This analysis was based on extensive GIS analysis demographic data available through the Regional Planning Council. Mr. Barnett also participated in the development of detailed route profiles of ORT and Razorback Transit routes. These profiles provided a detailed assessment of route strengths and weaknesses, and were used to determine service plan recommendations.

Comprehensive Operational Analysis / Alternatives Analysis

Capital Area Transit System (Baton Rouge, LA)

Mr. Barnett assisted with a comprehensive operations analysis (COA) for Capital Area Transit System (CATS). He completed a GIS analysis of the existing transit service and developed detailed route profiles that provided a comprehensive evaluation of route service. The route profiles utilized information from ridecheck and on-board survey data and fieldwork. Mr. Barnett also performed a latent demand analysis to determine unserved or underserved areas within the CATS service area. Mr. Barnett also assisted in the development of near-term, short-range and long-range service plan recommendations.

Traffic Demand Modeling for Community Planning

(Orlando, FL)

While interning at Glatting Jackson Kercher Anglin, Mr. Barnett assisted in a travel demand forecasting effort and traffic engineering analysis for a large planned community in south Orlando, Florida. This effort included a travel conditions forecasting effort for several key corridors and included forecasts for the current and planned transit network. Mr. Barnett also provided GIS and graphical representation support for the project.