

Jack Allison Butler

Director of Support Services
City of Ocoee
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PROFESSIONAL PREPARATION

University of Georgia	Business Systems	Bachelor of Business Administration, 1974
Florida State University	Public Administration	Certificate in Supervisory Management, 1997
University of Colorado Denver	Engineering	Master of Engineering, 2005

APPOINTMENTS

2012 – present	Director of Support Services, City of Ocoee, Ocoee, FL, USA
2008 – 2012	Capital Investment Program Manager, City of Ocoee, Ocoee, FL, USA
2002 – present	Managing Member, Butler & Butler, LLC, Winter Garden, FL, USA
2002 – 2004	Visiting Professor of Civil Engineering, University of Florida, Gainesville, FL, USA
1997 – 2001	Public Works Division & GIS Director, Hamilton County, Chattanooga, TN, USA
1986 – 1997	Multiple Positions, Florida Department of Transportation, Tallahassee, FL, USA
1984 – 1986	Research Engineer, Florida Public Service Commission, Tallahassee, FL, USA
1979 – 1984	Assistant Director of Transportation, Athens Clarke County, GA, USA
1974 – 1978	Senior Planner, Northeast Georgia Regional Commission, Athens, GA, USA

PUBLICATIONS

1. Butler, Jack A., and Robert Scopatz (2019). *Applications of Enterprise GIS for Transportation (GIST) Guidebook*. U.S. Department of Transportation, Federal Highway Administration, Washington, DC. <https://www.gis.fhwa.dot.gov/AEGIST.aspx>.
2. Butler, J. Allison (2013). *Model Job Descriptions for GIS, 2nd Ed.* URISA Press, Des Plaines, IL. <https://www.urisa.org/resources/books-and-resources>.
3. Butler, J. Allison (2008). *Geodatabase Design for Transportation*. Esri Press, Redlands, CA.
4. Butler, Jack A. (2003). *Applicability of Surveying and Mapping Regulation to Orthoimagery and GIS in the State of Florida*. ImageAmerica, Clayton, MO.
5. Butler, Jack A. and K.J. Dueker (2001). "Implementing the Enterprise GIS-T Data Model," *Journal of the Urban & Regional Information Systems Association*, Vol 13 No 1, pp. 17-28. <https://www.semanticscholar.org>.
6. Butler, Jack A. and K.J. Dueker (2000). "A Framework for GIS-T Data Sharing," *Transportation Research Part C: Emerging Technologies*. Elsevier Science Ltd., New York, NY. https://pdxscholar.library.pdx.edu/cus_pubs/13.
7. Butler, J. Allison, and K.J. Dueker (1998). "A Proposed Method of Transportation Feature Identification," *Transportation Research Board Annual Conference Proceedings*. https://pdxscholar.library.pdx.edu/cus_pubs/30.
8. Butler, Jack A. (1991). "Safety Impacts of the 65 mph Speed Limit in Florida," *1990 Compendium of Technical Papers, Institute of Transportation Engineers Annual International Conference*.
9. Butler, Jack A. (1986). *Broadband Local Area Networks: The Potential for Local Exchange Company Bypass*. Florida Public Service Commission, Tallahassee, FL.
10. Butler, Jack A. (1985), as Chair of ITE Committee 4A-16. "Proposed Recommended Practice: Determining Vehicle Change Intervals," *ITE Journal*, May 1985, pp. 61-64.

SYNERGISTIC ACTIVITIES

1. *Offices Held in Professional Organizations:* District III Director, Florida City & County Management Association; International President, Board Member, and Committee Chair in the Urban & Regional Information Systems Association (URISA); President, Treasurer, Board Member, and Ethics Officer of the GIS Certification Institute; Founding Board Member, GIS Management Institute. Chair of Oversight Committee, National Consortium for Remote Sensing in Transportation: Disaster Assessment, Safety, and Hazards. Panel member, Transportation Research Board, NCHRP Project 17-26 (created the *Highway Safety Manual*). Traffic Operations Technical Division Chair, Institute of Transportation Engineers; Chair, Committee 4A-16. University of New Mexico Privacy & Ethics Curriculum Development Group.
2. Butler and Scopatz (2019), which is substantially based on Butler (2008) and other prior publications, is now being implemented by 19 state departments of transportation as part of an FHWA Pooled Fund Study seeking to refine its provisions prior to becoming a national standard.
3. Esri developed the ArcGIS Roads & Highways product based on the work in Butler (2008).
4. Butler (1986) was the first publication to predict the future competition between cable television carriers and telephone companies, and to foresee the emergence of a broadband industry. As a result of this work, the Florida Public Service Commission accelerated the rate of depreciation for the existing telephone industry's copper-wire infrastructure in order to facilitate a faster deployment of fiber optic cables.
5. Butler (1985) was the first proposed recommended practice for timing traffic signals and is based on a previous award-winning technical paper. Previous guidance was based on "rules of thumb" and "engineering judgment." The data-based methodology, with subsequent refinements, is still the global standard method for timing the yellow and all-red intervals for traffic signal cycles.

COMMITMENT TO DIVERSITY AND INCLUSIVENESS

Sponsor and Facilitator, City of Ocoee Human Relations & Diversity Board, which hosts the annual observance of the Ocoee Election Day Massacre of 1920, the Rev. Dr. Martin L. King, Jr. Parade and Celebration, and the annual Black History Month Essay Competition.

COLLABORATORS AND OTHER AFFILIATIONS

Collaborators & Co-authors:

- Robert Scopatz, PhD, Senior Transportation Analyst, Vanasse Hangen Brustlin, Inc.
- Kenneth J Dueker, PhD, Professor Emeritus, Portland State University, Portland, OR
- Gregory Babinski, MA, President, GIS Management Academy, Edmonds, WA

Graduate Advisors:

- Bruce Janson, PhD, Professor Emeritus of Civil Engineering, University of Colorado Denver
- Roy A. Welch, PhD, Professor Emeritus of Geography & Remote Sensing, University of Georgia, Athens, GA

Mentorship:

- Member, Georgia Institute of Technology Alumni Mentorship Program
- Classroom and In-car Instructor at Road Atlanta, Sebring, Daytona, Palm Beach, Roebing Road, Charlotte, and Atlanta race tracks

MAJOR AWARDS, FELLOWSHIPS, INVITED LECTURES, AND HONORS

Professional Credentials Earned:

- Certified Contractor, State of Florida, License No. CRC1328041.
- Certified Planner, American Institute of Certified Planners, No. 012713, 1997.
- Certified Project Management Professional, Project Management Institute, No. 1975750, 2016 (inactive).
- Certified GIS Professional, GIS Certification Institute; Certificate No. 188; 2004 (inactive).
- Certified Emergency Number Professional, National Emergency Number Association; 2002 (inactive).
- Certified Mapping Scientist - Geographic & Land Information Systems; No. R120GS, American Society of Photogrammetry and Remote Sensing, 1994 (inactive).
- Licensed Race Car Driver by National Auto Sport Association, Sports Car Club of America (inactive), and International Motor Sports Association (inactive)

Honors and Awards:

- Home Rule Hero Award, 2022, Florida League of Cities
- Volunteer of the Year Award, 2016, South Atlantic Region, BMW Car Club of America
- Police Chief's Special Service Award, 2015, City of Ocoee
- Barbara Hirsch Special Service Award, 2013, Urban & Regional Information Systems Association
- Leadership Award, 2005, URISA
- Service Award, 2003, URISA
- Innovations in Government Award, 2001, National Association of Counties
- Davis Productivity Award, 1992, TaxWatch Florida
- Best Technical Paper Award, 1982, Southern Section, Institute of Transportation Engineers

Invited Lectures:

- *3D GIS*, URISA Annual Conference, Indianapolis, IN, Oct. 2011
- *Transportation Spatial Database Design Workshop*, URISA Annual Conference, Washington, DC, Aug. 2007; Vancouver, BC, Oct. 2006; GIS-T Conference, Columbus, OH, March 2006
- *Field Force Automation and mGovernment Workshop*, Alaska Surveying and Mapping Conference, 2007, and URISA Annual Conference, Kansas City, MO, 2005
- *GIS Certification Workshop*, Central Florida GIS 2004; GIS-T 2004, Rapid City, SD
- Guest Lecturer, University of Tennessee at Chattanooga, MPA Program, 1999-2000

MAJOR CAREER CONTRIBUTIONS AND LEGACY

- Developed the business rules, database designs, and application foundation for transportation facility mapping, including serving as the editor of six national data standards for data discovery and exchange.
- Helped establish geographic information systems as a recognized field of applied science, with multiple certification pathways for recognizing competency in areas of specialization.
- Moved traffic signal timing practice from deterministic methods to recognize the role of probability analysis in traffic operations.
- Advocated for rational transportation system policies that are currently embodied in the Strong Towns movement of urban planning.
- Taught hundreds of people to skillfully pursue auto racing as a hobby or profession.