**Curriculum Vitae**

Bryan Knakiewicz

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**Education:**

Ph.D., Technology- Concentration in Construction Management, Eastern Michigan University, 2014

*Dissertation Title: Investigating the Application of Porous Asphalt Pavement on Michigan Roads*

M.S., Engineering Technology- General Engineering with a Concentration in Civil Engineering, University of Toledo, 2009

*Thesis Title: Dundee, MI Inflow and Infiltration Control for Wastewater Treatment*

B.S., Construction Engineering Technology, University of Toledo, 2007

*Capstone Project: The University of Toledo Monorail Project Proposal; Group Project Leader*

**Academic work experience:**

Savannah State University, Savannah, GA, August 2012-Present

*Full-time Instructor of Civil Engineering Technology (CET) in the Department of Engineering Technology and Mathematics*

Structural Analysis

Steel Design

Highway and Transportation Engineering

Soil Mechanics and Foundations

Reinforced Concrete Design

Civil Engineering Computing Practices

Computer Graphics

The University of Toledo, Toledo, OH, August 2010- May 2012

*Part-Time Instructor of Engineering Technology- Construction (CET), Mechanical (MET) and Electrical Engineering Technology (EET)*

Computers for Engineering Technology (CET, MET)

Construction Graphics (Site planning/road design) (CET)

Electrical Drafting (EET)

Technical Drawing (MET)

ITT Technical Institute, Maumee, OH, June 2010- March 2012

*Part-Time Instructor of Drafting & Design*

Introduction to Design & Drafting

Drafting/ CAD Methods

Engineering Graphics

Civil Drafting and Introduction to GIS

Architectural Design

Sustainable Design & Construction

**Non-academic work experience:**

Village of Dundee, MI, Dundee, MI, Construction Engineer & Inspector, 2006-2010

*Project Management; Project estimating; On-site commercial and residential inspections; Economic development; Site planning; Road and sewer design; Management and maintenance of public utilities and roads; GIS; Public relations*

Midwest Movers, Toledo, OH, Owner 2007-2009

*Provided relocation services to residential and commercial customers; Daily furniture/appliance delivery routes for several companies, including J.C. Penny*

Scott Brothers Pacific Inc., Lahaina, HI, Crew Supervisor, 2005

*Commercial construction specializing in hotel renovation*

Skillcraft Systems of Toledo, Toledo, OH, Estimator, 2004

*Commercial construction specializing in commercial, healthcare, and municipal construction/renovation*

**Current membership in professional organizations:**

Project Kaleidoscope (PKAL) Advancing STEM education, Public Policy Team, Representing the ASEE, 2011

Epsilon Pi Tau- The International Honor Society for Professions in Technology, 2011

The American Society of Civil Engineers (ASCE), 2011

The Honor Society of Phi Kappa Phi, 2010

The American Society for Engineering Education (ASEE), 2010

**Service activities:**

* YMCA of Coastal Georgia- Tybee Island Branch Board of Management
* Savannah State University American Society of Civil Engineers (ASCE) Student Chapter- Advisor, 2012- Present
* Savannah State University Engineers Without Borders Student Chapter- Founder & Advisor, 2012- Present
* H. V. Jenkins High School, Senior Engineering Design & Development Expo- Judge 2013
* Savannah State University STEM 360- Volunteer, 2012
* Doctoral Student Advisory Board- Eastern Michigan University, 2012- 2013
* Association of American Colleges and Universities (AAC&U), Project Kaleidoscope (PKAL) Advancing STEM education, Public Policy Team, Representing the ASEE, 2011-Present
* American Institute of Architects 2011 High School Design Competition- Advising provided to students, 2011-Present
* Christ the King Church, Toledo, OH- Volunteer, 2011
* Invited Lecturer at Eastern Michigan University, College of Technology, Construction Management Program, 2009-2010
* Salvation Army- Volunteer, 2009- Present
* Cherry St. Mission Ministries- Volunteer/Inventory, 2008-2011
* Big Brothers Big Sisters of America- Big Brother, 2008-Present
* Big Brothers Big Sisters of America- Speaker to promote STEM careers, 2008-2010
* Habitat For Humanity- Home construction volunteer, 2009

**Professional development activities:**

* The American Society for Engineering Education (ASEE), Reviewer for Civil Engineering Division for 2011, 2013, ASEE Annual Conference
* Journal of Engineering Technology (JET), Reviewer 2012-2013
* Association of American Colleges and Universities (AAC&U), Project Kaleidoscope (PKAL) Advancing STEM education, Public Policy Team, Representing the ASEE, Washington D.C., 2012
* The National Science Foundation (NSF)- Graduate Research Fellowship Program (GRF) panelist for the Mechanical Engineering Division (included several engineering disciplines), Washington D.C., 2012-2014
* Transforming the freshman “cornerstone” design course through modeling and simulation,presented by ASEE, Maplesoft and McMaster University, 2011
* Green Globes Personnel Certification Webinar, 2011
* The Keys to Green Affordable Housing: A Guide for Existing Multifamily Properties, USGBC, 2011
* CE News & Rebuilding America’s Infrastructure, BIM and Sustainability for roadway design, 2010
* TAMC Transportation Asset Management Conference, 2009
* Asset Management Guide for Local Agencies in Michigan, 2009

**Technical skills:**

* Software (not limited to)- Bentley (Microstation, Architecture, Inroads, STAAD Pro), Autodesk AutoCAD, AutoCAD Civil 3D, AutoCAD Electrical, Autodesk Revit Architecture, Autodesk Galileo, Autodesk Green Building Studio, Ecotect Analysis, Solidworks, Google Sketchup, Primavera, MathCAD, Matlab, WinEst, MS Project, Gantt Project, MS Visual Basic, MS Publisher, Adobe Dreamweaver, Various audio/visual software, etc.
* Surveying Skills; Electronic Theodolite; Trained in GIS/GPS programming and data management
* Construction materials testing (ASTM, AASHTO)
* Degree in Construction Estimating Program (Data Management Institute- Naperville, IL)