BRITTANY K. GIEL

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EDUCATION:

Ph.D. in Design Construction and Planning in Progress *2009 – Present*
College of Design Construction and Planning
University of Florida, Gainesville, FL
- Dissertation title: *"A Framework for Evaluating the BIM Competency of Building Owners"*

Certificate in Information Systems & Operations Management *2010 – 2011*
Warrington Graduate School of Business
University of Florida, Gainesville, FL

Master of Science in Construction Management *2007 – 2009*
M.E. Rinker School of Building Construction
University of Florida, Gainesville, FL
- Thesis title: *"Return On Investment Analysis of BIM"*

Bachelor of Design with a Major in Interior Design *2003 – 2007*
Department of Interior Design
College of Design Construction and Planning
University of Florida, Gainesville, FL
- Graduated Summa Cum Laude

EMPLOYMENT:

Assistant to Construction Claims Analyst *August 2009 – Present*
Lucas International Consulting, LLC: Archer, Florida
- Performs data entry and project chronology analysis
- Participates in preparation of construction delay claims by cause of action
- Produces Building Information Models for consultant's use and analysis

Legal Administrative Assistant *August 2008 – May 2009*
Brashear, Marsh, Kurdziel & McCarty, P.L.: Gainesville, Florida
- Assisted Accounting with Accounts-Receivable, Accounts-Payable and tax documentation
- Categorized income and cash flow for distribution to partners and administrative expenses

Building Information Modeling/ VDC Intern *May 2008 – September 2008*
Current Builders: Pompano Beach, Florida
- Utilized BIM software as a tool for pre-construction, estimating and construction conflict detection
- Maintained VDC Task, Submittal, Change, RFI, and Discrepancy Logs
- Collaborated with project management staff to observe field processes
- Developed supplemental field drawings derived from BIM to reflect the needs of project management
- Participated and assisted in marketing and business development sectors

AutoCAD Technician and Design Assistant *June 2007 – May 2008*
Shannon Homes: Gainesville, Florida
- Assisted in the design & construction of 8 high-end custom and spec homes
- Created and prepared all construction documents & supplemental interior details
- Created client presentations to assist design communication and marketing goals

RESEARCH:

Current Research in Review:

GIEL, B. and ISSA, R.R.A (2013). "Synthesis of Existing BIM Maturity Toolsets to Evaluate Building Owners' BIM Competency," *In review for the 2013 ASCE International Workshop on Computing in Civil Engineering (IWCCE)*, June 2013, University of Southern California, CA, paper 98.

GIEL, B., ISSA, R.R.A , Liu, R., and Zhang, L. (2013). "Tool for Automatically Tracking Object Changes in BIM to Assist Construction Managers in Coordinating and Managing Trades," *In review for the 2013 ASCE International Workshop on Computing in Civil Engineering (IWCCE),* June 2013, University of Southern California, CA, paper 179.

Published Work:

GIEL, B., and ISSA, R.R.A (2012). "Stressing the Importance of Facility Owner Requirements in Construction Management BIM Curriculum: A Case Study," In Review for *buildingSMART BIM Academic Workshop*, Washington, DC, January 11, 2013, 8 pp.

GIEL, B., ISSA, R.R.A., LIU, R (2012). "Perceptions of Key BIM Maturity Variables within the US AECO Industry," *Proceedings from the 29th International Conference on Applications of IT in the AEC (CIB W78 2012)*, 17-19 October 2012. Beirut, Lebanon, 10 pp.

MAYO, G., GIEL, B. and ISSA, R.R.A (2012). "BIM Use and Requirements Among Building Owners," *Proceedings from the ASCE International Workshop on Computing in Civil Engineering*, June 17-21, 2012, Clearwater Beach, FL, 349-356.

GIEL, B., ISSA, R.R.A, and OLBINA, S. (2012). "Quality and Maturity of BIM Implementation Within the AECO Industry," *Computing in Civil and Building Engineering, Proceedings of the International Conference* W. TIZANI (Editor), 30 June-2 July, Moscow, Russia, 8 pp.

GIEL, B., Mayo, G., and ISSA, R.R.A (2011). "Utilization of Standard Plans to Facilitate Student Understanding of BIM Processes," *Proceedings from Ecobuild BIM Academic Workshop,* Washington, DC, December 6-10, 2011, 8 pp.

GIEL, B. and ISSA, R.R.A (2011). "Using Laser Scanning Technology to Assess the Accuracy of As-Built BIMs," *Proceedings from the ASCE International Workshop on Computing in Civil Engineering*, June 19-21, 2011, Miami, FL, 8 pp.

GIEL, B. and ISSA, R.R.A (2011). "Return on Investment Analysis of Building Information Modeling in Construction," 2011 *ASCE Journal of Computing in Civil Engineering* special issue. DOI: 10.1061(ASCE)CP.1943-5487.0000164.

GIEL, B. and ISSA, R.R.A (2011). "BIM Return on Investment: A Case Study," *Journal of Building Information Modeling*. Spring 2011, pp. 24-27.

GIEL, B., ISSA, R.R.A. and OLBINA, S. (2010). "Return on Investment Analysis of Building Information Modeling in Construction," *Computing in Civil and Building Engineering, Proceedings of the International Conference*, W. TIZANI (Editor), 30 June-2 July, Nottingham, UK, Nottingham University Press, Paper 77.

GIEL, B. and ISSA, R.R.A. (2010). "Quantitative Benefits of Building Information Modeling Measured in Construction." *Proceedings from the 6th International Conference on Innovation in Architecture, Engineering, and Construction*, 9 June- 11 June 2010, Penn State University Department of Architectural Engineering.

GIEL, B. and ISSA, R.R A. (2010). "Benefits and Challenges of Converting 2D As-Built Documentation to 3D BIM Post Construction." *Autodesk White Papers*.

WU, W. and ISSA, R.R.A. and GIEL, B. (2010). "Integrated BIM and Sustainability Curriculum," *Proceedings from Ecobuild BIM Academic Workshop*, Washington, DC, December 6-10, 2010, 8 pp.

TEACHING:

Instructor to BCN6785: Construction Information Systems *2009 – Present*

M.E. Rinker, Sr. School of BCN, University of Florida: Gainesville, Florida

- Developed a revised BIM curriculum to supplement the graduate level course on technology in construction
- Prepared all assignments, lectures , exams and teaching materials to aid students in the principles of learning BIM theory and software

Co-Instructor for Industry Seminars on BIM in Construction *2009 – Present*

Center for Advanced Construction Information Modeling (CACIM)
M.E. Rinker, Sr. School of BCN, University of Florida: Gainesville, Florida

- Assists in teaching BIM continuing education units to construction industry professionals by demonstrating a variety of software platforms
- Topics include: an overview of multidisciplinary workflow, entry level modeling practices, model based quantity takeoffs and estimation, construction sequencing, and clash detection

UF BIM Competition Team Coach *2009 – Present*

M.E. Rinker, Sr. School of BCN, University of Florida: Gainesville, Florida

- Trains a team of undergraduate students each academic year in preparation for the Annual ASC Regions VI &VII Open Student BIM Competition in Reno, NV

Graduate Teaching Assistant *2007- 2008*

University of Florida Department of Interior Design: Gainesville, Florida

- Assisted junior level Interior Design students with learning AutoCAD and the comprehension and preparation of construction documents
- Responsibilities included assisting in the lab period and grading assignments

TECHNICAL SKILLS:

Advanced Knowledge:

- Autodesk Revit Architecture, Structure, & MEP 2013
- Autodesk Navisworks Manage 2013
- AutoCAD 2013
- ArcGIS 3.0
- Microsoft Office 2010: Word, Excel, PowerPoint and Access
- Camtasia Studio 7.0
- Adobe Photoshop CS4

Beginner Knowledge:

- Sage Timberline
- Vico Office
- Primavera P6
- Synchro

- Visual Basic and C# programming languages
- Web design experience using xhtml and CSS
- Unity 3D

AWARDS AND MEMBERSHIP:

- Awarded Second place for best student paper in the 6th International Conference on Innovation in Architecture, Engineering and Construction Conference *June 2010*
  Paper Title: *"Quantitative Benefits of Building Information Modeling Measured in Construction"*
- Recipient of Rinker Alumni Doctoral Fellowship *August 2009*
- Completed OSHA 30-hr Certification *May 2009*
- National Association of Women in Construction (NAWIC) *January 2008 – Present*
  - Active member
- Sigma Lambda Chi Honor Society *January 2008 – Present*
  - Active member
- Alpha Rho Chi Professional Architecture and Allied Arts Fraternity *2003 – 2007*
  - Vice-President: 2006-2007
  - Worthy Clerk: 2005-2006