2015

Melissa Gende, E.I.T.

mgende@clemson.edu   103 College St. Unit 8
(803) 807-6201   Clemson, SC 29631

Objective
To obtain a full-time position as a transportation planner or traffic engineer in a working environment that encourages continued education and engineering excellence and fosters my journey to become a professional engineer while being a valuable asset to the company.

Education
Clemson University   *Clemson, SC*
- Master of Science, Civil Engineering   Expected Graduation Date: August 2015
  Emphasis in Transportation   GPA: 4.0
- Bachelor of Science, Civil Engineering   Graduation Date: December 2013
  Emphasis in Transportation   GPA: 3.82

Related Work Experience
ARCADIS   *Atlanta, GA*
Traffic Engineering/Transportation Planning   May – August 2014
Intern
- Created VISSIM and Synchro models of existing, build, and no-build scenarios for proposed diverging diamond interchange and adjacent intersections in McDonough, GA and prepared report to detail traffic study findings
- Analyzed crash data and used Synchro to model proposed signal timing and lane marking changes along a congested corridor in Marietta, GA and compiled findings and suggestions into traffic analysis report
- Added correct callouts to signal design plans for 12 intersections in MicroStation then quantified materials for project
- Assisted in creating proposal plans for 19 weigh-in-motion stations for the state of Georgia in MicroStation
- Introduced to air quality analysis modeling software (CAL3QHC) and created roadway network for no-build and build scenarios at I-285/GA 400 interchange (internship ended before air quality analysis began)
- Attended weekly staff meetings, several company sponsored lunch and learns, and professional organization meetings

Jacobs Engineering   *Atlanta, GA (Norcross)*
Roadway Design Intern   May – August 2013
- Finalized summary of quantities, cost estimate, drainage area map, sediment control plans, and right of way plans as well as assisted in checking all sheets for the final plans review of a roadway project
- Created preliminary centerline, typical sections, profile, and conceptual layout for a section of roadway through an urban and suburban area in Conyers, GA
- Rerouted parts of a project then created new cross sections and updated project limits in InRoads
- Created existing drainage area maps, calculated existing drainage flows, and determined existing head water elevations at existing drainage crossings
- Checked and updated drainage profiles for two roadway projects
- Participated in the organization and implementation of part of Jacobs' workplace safety campaign

HDR Engineering   *Charlotte, NC*
Bridge Design Co-op   Jan. – May & Aug. – Dec., 2012
- Performed and checked design and rebar calculations for culverts and bridges including decks, approach slabs, wingwalls, and barriers using MicroStation
- Determined earthwork, curb and gutter, asphalt, and concrete quantities for a 3.5 mile roadway project
- Assisted inspecting and preparing reports for three bridges in Greensboro, NC
- Developed a table relating number of girders and concrete strength to maximum span length of a bridge using CON/SPAN software

Volunteer Experience

MATHCOUNTS

<u>Volunteer</u>   2005 - Present

- Assist in setting up, running, and cleaning up after regional and state level MATHCOUNTS competitions in SC
- Represented MATHCOUNTS at the 2009 SCSPE Conference in Myrtle Beach, SC

Honors and Activities

- National Science Foundation Graduate Research Fellowship (2014 – Present)
- Institute of Transportation Engineers (2013 – Present) – Current President
- American Society of Civil Engineers (2011 – Present) – 2014 Secretary
- Clemson Crew Team (2011 – 2013)

Computer Skills

Microsoft Office, MicroStation, VISSIM, Synchro, HCS, ArcGIS, AutoCAD, Adobe

ADIKA MAMMADRAHIMLI

amammad@clemson.edu   (864) 643-9405

Current Address: 924 Georgetown St, Clemson, SC 29631

OBJECTIVE   To obtain a full time position in the field of Transportation Engineering that uses my analytical and interpersonal skills to advance the growth of the organization and enhance my career.

EDUCATION

CLEMSON UNIVERSITY   **Clemson, SC**
Master of Science in Civil Engineering,   *May 2015*
Concentration: Transportation Engineering

KAIST (KOREA ADVANCED INSTITUTE OF SCIENCE & TECHNOLOGY)   **Daejeon, South Korea**
Bachelor of Science in Civil and Environmental Engineering   *Aug 2013*
Minor in Management Science

RELEVANT EXPERIENCE

CLEMSON UNIVERSITY   **Clemson, SC**
Main Student Researcher   *Fall 2013-Present*
- Developed and Implemented an Access Management Program through Research and Analysis of Collision Data in South Carolina

SPRAGUE & SPRAGUE CONSULTING ENGINEERS   **Greenville, SC**
Transportation Intern   *Summer 2014*
- Performed a Bike and Pedestrian Traffic Study using Synchro
- Analyzed a Signal Phasing Plan for Several Intersections in upstate SC
- Quality control of calculations, drawings, reports and other deliverables

KAIST (KOREA ADVANCED INSTITUTE OF SCIENCE & TECHNOLOGY)   **Daejeon, South Korea**
Teaching Assistant for an Engineering Design and Communication class   *Spring 2013*
- Mentored 44 undergraduate students and assisted in grading coursework and fieldwork

RESEARCH PROJECT

Quality of Crash Location Data 2013-2014 (Thesis)
- Reviewed and analyzed crash location identification methods of other states and how these states use this data to influence access management programs
- Examined and compared the spatial accuracy of South Carolina Crash Data for different years
- Used ArcGIS to conduct before and after crash analyses of corridors with the highest incidence of driveway related crashes relative to the institution of SCDOT's precise crash location reporting in 2011

CLASS PROJECTS

Developed a Travel Demand Model Using TransCAD   **Clemson, SC**
                                                                                                            Fall 2014
Designed a Traffic Signal Timing Design and Coordination for a State Route **Clemson, SC**
                                                                                                            Spring 2014
Performed a Geometric Design of Highway Using AutoCAD Civil 3D   **Forsyth, Ga**
                                                                                                            Spring 2014
Assessed an ITS Communication Network Design for the Interstate Highways **Columbia, SC**
                                                                                                            Fall 2013
Conceptualized a Vehicle-Based Novice Teen Driver Support System Program **Clemson, SC**
                                                                                                            Fall 2013

SKILLS

Computer:	AutoCAD	AutoCad Civil 3D	Synchro Studio 7	HCS+	Matlab	Vissim
	TransCAD,	Microsoft Office	ArcGIS Desktop 10	SAS	Python	Visum

Languages: Fluent in English, Turkish, Russian and Azerbaijani; Conversant in Korean

SELECTED RESEARCH	Assessment of Crash Location Improvements in Map-Based Geocoding Systems and Subsequent Benefits to Geospatial Crash Analysis (94th TRB Meeting)	**Washington DC** January, 2015
	Evaluation of the Operational Performance of Two Way Left Turn Lanes of Varying Width using a Driving Simulator (94th TRB Meeting)	**Washington DC** January, 2015

ACTIVITIES & HONORS	3rd Winner of 3MT competition at the STC spotlight 94th TRB conference	2015
	Institute of Transportation Engineers (ITE) Clemson Student Chapter, VP	2014-Present
	Intelligent Transportation Society(ITS) of America Clemson Student Chapter	2013-Present
	American Society of Civil Engineers (ASCE) Clemson Student Chapter	2014-Present
	KAIST International Student Association (KISA), VP	2011-2013
	Leadership Training, The Seven Habits of Highly Effective Students	2010
	Global Entrepreneurship Training	2010
	KAIST full scholarship for excellent undergraduate students	2009-2013

VOLUNTEER WORKS	Clemson Football Game Day Study (Clemson University Athletics Department)	2014
	Clemson University Parking Space Counts (Clemson University Parking Services)	2014
	Clemson Area Transit Bus Passenger Counts (Clemson University Parking Services)	2013

F. Logan Reed, EIT

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Permanent Address
Local Address

1904 Townsend Blvd   102 N. Main Street Unit B
Franklin, TN 37064   Greenville, SC 29601

OBJECTIVE

To obtain an internship that provides workplace experience in transportation engineering or transportation planning

EDUCATION

Clemson University   Clemson, SC
Master of Science, Civil Engineering   December 2015
Master of Business Administration   GPA: 4.00/4.00

Bachelor of Science in Civil Engineering   May 2013
Minor in Business Administration
Passed Fundamentals of Engineering Exam   October 2012

COMPUTER/TECHNICAL SKILLS

AutoCAD Civil 3D	Microsoft Office	ArcGIS
Synchro	HCS 2010	TransCAD
Limited Experience with VISSUM		

WORK EXPERIENCE

Clemson University   Clemson, SC
Graduate Research Assistant   October 2013-Present
- Research pavement preservation methods used in South Carolina for SCDOT
- Create a matrix in order to find which programs efficiently choose roads for maintenance
- Develop a faster, more efficient way for the SCDOT to identify preservation candidates in the state

Graduate Teaching Assistant   January 2014-Present
- Teach lab for geometric roadway design class
- Grade lab reports and other assignments for professor

Sprague & Sprague Consulting Engineers   Greenville, SC
Intern   June 2014
- Proofread traffic impact studies, left turn lane studies, and signal plans
- Created future trip and peak hour traffic counts for a traffic impact study
- Visited sites in the field in order to check stopping sight distance for proposed access roadways

Budweiser of Greenville   Greenville, SC
Merchandiser   June 2012- Present
- Organize and stock products in stores utilizing corporate marketing techniques
- Communicate with store managers and account managers to ensure the most efficient work

Bristol Development Company, Icon in the Gulch   Nashville, TN
Pool/Rooftop Common Area Manager   Summer 2011

6

- Managed the pool area of a high rise condominium building enforcing entrance and behavior policies

Gregory M. Reed, Attorney at Law   Murfreesboro, TN
Office Assistant/Runner   Summer 2010
- Organized online filing system and scanned documents to convert the office to paperless
- Transported legal documents and ran other errands as needed

LEADERSHIP EXPERIENCE

Institute of Transportation Engineers, Clemson University Chapter   Clemson, SC
Treasurer   August 2014-
Present
- Collect dues from members at beginning of each semester
- Make payments and deposits for the organization
- Keep checkbook balanced and reconcile monthly balances
- Work with other officers in the organization to plan service and social events

Alpha Sigma Phi Fraternity   Clemson, SC
Standards Alumni Advisor   August 2013-Present
- Supervise judicial meetings to ensure they run smoothly
- Provide advice to current judicial chair when necessary
- Meet with other alumni advisors to keep up to date on the organization

Parents/Alumni Chair   December 2012- May 2013
- Planned two events for the parents and alumni to attend for the fraternity
- Kept constant communication between alumni, parents, and the fraternity

Judicial Board   August 2010-May 2013
- Decided disciplinary action if necessary within the fraternity

Philanthropy Event Supervisor   December 2010-2013
- Co-organized fraternity's largest philanthropy event of the year, "Deck the Halls"
- Scheduled and supervised 50- 60 volunteers for the event
- Helped collect donation money and toys for Clemson Community Care

Williamson County Parks and Recreation   Franklin, TN
Tennis Instructor   Summers 2006-2010
- Supervised and instructed approximately 50 younger children in tennis camp
- Assisted Tennis Professionals with other tasks as needed

HONORS & ACTIVITIES
Alpha Delta Lambda, 2009
National Society of Collegiate Scholars, 2010
Phi Kappa Phi Honor Society, 2014

Home Address
2400 Yorkdale Drive
Charlotte, NC 28273

Bryanna Joy Saunders

(704) 299-9070   bryanns@g.clemson.edu

Campus Address
22 Clemson Place Circle
Clemson, SC 29631

Education

Clemson University, Clemson, SC
Master of Science in Civil Engineering

Expected Graduation: December, 2015
Cumulative GPA 4.00 / 4.00

Clemson University, Clemson, SC
Bachelor of Science in Civil Engineering

May, 2014
Cumulative GPA 3.11 / 4.00

Work Experience

Graduate Research Assistant, Glenn Department of Civil Engineering, Clemson, SC *August 2014- Present*
- Grade assignments for the Introduction to Transportation Engineering course
- Collect and analyze data to improve transportation safety

Traffic Engineering & Operations Intern, Jacobs, Atlanta, GA *May 2014- August 2014*
- Completed Traffic Impact Studies for proposed developments and roadway extensions
- Created Intersection Diagrams and Temporary Traffic Control Plans for use during construction
- Evaluated performance and conducted preventative maintenance for the Midtown Traffic Operations program and Regional Traffic Operations Program in Georgia

Resident Assistant, Clemson University Housing and Dining, Clemson, SC *August 2011- May 2014*
- Managed and offered a safe and orderly living environment for 42 undergraduate students
- Provided personal and educational programs that develop a position of respect among peers and campus faculty

Traffic Engineering Intern, SCDOT, North Charleston, SC *May 2013-August 2013*
- Created and organized sign, pavement marking, and signal plans
- Prepared sketches, reports and work orders to be carried out by maintenance
- Completed traffic counts and revised signal timings based on new data
- Increased skills in Synchro, Microstation and Microsoft office applications
- Shadowed the Assistant District Engineer while traveling around the District 6 area of South Carolina

Mentor, Summer Engineering Experience for Kids, Washington, D.C. *July 2011, July 2012*
- Mentored 20 middle school students and led class to win 8 medals in engineering and STEM competitions
- Presented for 5 days each on two STEM hands on learning toys, the Gravity Cruiser and the Can Crusher
- Taught 6th & 8th graders the principles of engineering design, physics, and sustainability.

Leadership Activities

Secretary, Institute of Transportation Engineers (ITE) *2014-Present*
- Collect attendance at meetings and events
- Compose meeting minutes and the annual report

President, National Society of Black Engineers (NSBE) *2012-2014*
- Presided over all meetings, delegate task to officers, and direct the chapter budget
- Increased active membership by 20% while in office
- Awarded Academic Role Model of the Year, 2012-2013

Publications Chair, National Society of Black Engineers (NSBE)   *2011-2012*
- Published 3 newsletters and kept the community informed of events via flyers and social media
- Most Outstanding Executive Board Member of the Year, 2011-2012

Public Relations Co-Chair, National Association for the Advancement of Colored People (NAACP)   *2013*
- Produced printed materials for advertising
- Marketed activities through social media

Parliamentarian, Clemson University Gospel Choir   *2010 -2011*
- Managed executive board elections
- Maintained order during meetings and rehearsals

Software Skills

Microstation	AutoCAD Civil 3D	Microsoft Office	Arch GIS
Synchro	Revit	SketchUp	Maptitude

Awards and Honors

University Transportation Center Fellow	*June, 2014*
NSBE Fulfilling the Legacy Scholar	*March, 2014*
NSBE Fellows Scholar	*March, 2013*
Clemson University President's Commission on Women Most Outstanding Undergraduate	*February, 2013*
Professional Women in Building Scholar	*June, 2011*
Urban League of the Carolina's Scholar	*May, 2010*
One of the Charlotte Post Top Seniors	*March, 2010*

Volunteer Work

Homework Help Center Volunteer, 2014-Present	Tri- County NSBE Jr. Mentor, 2012 -Present
Martin Luther King Day of Service, 2011-2014	Sneak Preview Host, 2010-2012

Relevant Coursework

Transportation Engineering
- Knowledgeable of characteristics for motor-vehicle traffic, highway capacity, applications of traffic control devices, traffic design of parking facilities, engineering studies, traffic safety, traffic laws and ordinances
- Competence in modeling intermodal transportation systems

Creative Inquiry for Women's Leadership in Transportation
- Assisted activities and photography for the first Transportation You Summit held in Washington, DC
- Became familiar with GIS and facilitated geo-tracking activities
- Presented at Focus on Creative Inquiry poster Forum

Transportation Undergraduate Research
- Collected traffic data before and after Clemson home football games along Highway 93 and review

Clemson Engineers for Developing Countries
- Collected overall project information from Cange, Haiti to published Alumni and Sponsorship newsletters
- Understand how to pour and hand mix concrete and communicate the standard operating procedure for this process specifically so that Clemson student interns in Haiti could replicate the process

KWEKU BROWN, EIT

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kwekub@clemson.edu

EDUCATION

PhD, Civil Engineering, Transportation Engineering
May, 2015
Clemson University, Clemson, South Carolina

M.S., Civil Engineering, Transportation Engineering
August, 2010
University of Connecticut, Storrs, Connecticut

B.Sc., Civil Engineering,
May, 2006
Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

WORKING EXPERIENCE

Internship, Milone & MacBroom Inc, Greenville, SC   May, 2014 – August, 2014
- Created and managed CAD drawings for company streetscape and cite design/development projects
- Conducted a detailed bridge inventory at Cleveland Park, Spartanburg, SC

Internship, Transportation and Planning Department, Spartanburg County, SC   June, 2013 – August, 2013
- Calibrated travel demand forecasting model in TransCAD for County
- Conducted training on use of GIS, GPS and data range finder units for staff

Internship, Department of Transportation, Traffic and Parking, City of New Haven, CT June, 2010 – August, 2010
- Produced CAD drawings of project to introduce dedicated bike lanes and shared travel lanes in city
- Marked out locations for the installation of 'sharrows' on city streets

Internship, Twum-Boafo and Partners (Tetteh-Quarshie Interchange Project), Accra, Ghana June, 2004 – July, 2004
- Interned in Structural, Surveying and Materials Departments

RESEARCH EXPERIENCE

Research Assistant, Clemson University, Clemson, South Carolina
Project Title: Applying Successfully Proven Measures in Roadway Safety to Reduce Harmful Collisions in South Carolina   Dec, 2013 – Present
- Identify proven safety programs across the nation and evaluate their applications in South Carolina
- Identify potential areas to target safety programs using crash data analysis

Project Title: Support for the Development and Implementation of an Access Management Program through Research and Analysis of Collision Data   May, 2013 – Present
- Geocode and analyze South Carolina crash data
- Identify potential corridors with violations of access management standards

Project Title: South Carolina Lane Width Project – The effects of roadway lane and shoulder widths on roadway operations and safety in South Carolina.   July, 2012 – Dec, 2013
- Developed GIS models to create roadway segments and aggregate crash data to created segments
- Ran driving simulation scenarios to determine driver gap acceptance and effect of lane widths on encroachment

Research Assistant, University of Connecticut, Storrs, Connecticut
Thesis Title: A LEED-ND Based Methodology for the Statewide Mapping of Smart Growth Locations

- A Case Study of the State of Connecticut"

Project Title: Reversing Urban Sprawl - A Reclaimability Index Approach for Reviving Downtown Brownfields

- Developed a visual tool for prioritizing brownfields in Connecticut using GIS as part of an interdisciplinary research team   Fall, 2008-Summer, 2010

Nantucket Island Transportation Study:
Summer, 2009
- Conducted transportation survey of residents and vacationers as part of assessment for need of parking structure

TEACHING EXPERIENCE

Teaching Assistant, Clemson University, Clemson, South Carolina   Spring, 2012 – Present
Geomatics
- Teach lab sessions, grade field books and reports

Teaching Assistant, University of Connecticut, Storrs, Connecticut   Fall, 2008 – Spring, 2009
Geomatics and Spatial Measurements
Fall, 2008
- Conducted lab sessions
Operations Research in Civil and Environmental Engineering,
Spring 2009
- Graded homework and held tutoring sessions

Teaching Assistant, Kwame Nkrumah University of Science and Technology
Fall, 2006
Elementary Structures, Theory of Structures
- Graded homework and held tutoring sessions

AWARDS

2013 Dwight Eisenhower Graduate Fellowship   August 2013 – August 2014
Outstanding Graduate Lab Assistant Award (Glenn Department of Civil Engineering, Clemson University)
2013-2014

COMPUTER SKILLS

ESRI ArcGIS 10.2, Maptitude 5.0, TransCAD 6.0, TSIS/CORSIM 6.1, VISSIM, HCS, PASSER V – 03, AutoCAD 2013, Civil 3D 2013, SAS 9.2, MICROSOFT: Word, Excel, Power Point, Access, Visio

PROFESSIONAL MEMBERSHIP

Chi Epsilon (XE) – Civil Engineering Honor Society, Clemson Chapter   Spring 2013 - Present

Institute of Transportation Engineers (ITE)
2009 – Present

Clemson Student Chapter President   August 2012 – August 2013

Intelligent Transportation Society of America (ITS, America)
2012 – Present

Clemson Student Chapter Communications Chair   May 2012 – August 2012

REFERENCES

Upon Request

MAHDI RAJABI
mrajabi@clemson.edu

Work Address: 131C, Lowry Hall, Clemson University, SC, 29631 – (864) 513-1875
Home Address: 250 ELM St, Apt 502, Clemson, SC, 29631 – (864) 207-3514

EDUCATION	• PhD Student, Transportation Engineering, Graduate Research Assistant and Teacher Assistant, CLEMSON UNIVERSITY, Started Sep 2013, Total GPA: 4.00
	• Master of Science, Earthquake Engineering, IIEES (International Institute of Earthquake Engineering and Seismology), Iran, 2008 to 2011
	• Bachelors of Science, Civil Engineering, ZANJAN UNIVERSITY, Iran, 2002 to 2008
SAMPLE WORK/EDUCATION EXPERIENCE	• Highway Safety Manual (HSM) Calibration for state of South Carolina, With Dr. Jennifer Ogle, Funded by SCDOT.
	• Modeling the City of Clemson in TransCAD, Including Network Development, Trip Generation, Trip Distribution, Mode Choice, and Trip Assignment, With Dr. Wayne Sarasua, As a term project for Travel Demand Forecasting Course.
	• Travel Demand Forecasting Toolbox for ArcGIS, Including writing scripts for Trip Distribution and Trip Assignment Algorithms using Python.
	• Intelligent Transportation Systems (ITS) and Connected Vehicles Technology (CVT) Course with Dr. Mahshur Chowdhury.
	• Roadway Geometric Design Project Using AutoCAD Civil 3D, With Dr. Jennifer Ogle, As a Term Project.
	• Urban Planning and Decision Making Course, With Dr. Mahshur Chowdhury.
SAMPLE PROGRAMMING WORK EXPERIENCE	• 2014: Highway Safety Manual (HSM) Calibration Toolbox for ArcGIS 10.2 by Python Which is used for Calibrating the HSM for South Carolina, Funded by SCDOT
	• 2011: Signal Processing Application for Earthquake Engineering and Modal Analyzes for Shear Buildings By Visual Basic as a Term Project
	• 2009: Risk Management Smart Worksheets for Micro Seismic Analyzes by VB Macros in Excel as a Term Project
	• 2006: SIMPLEX Method (One of the Top 10 Algorithms in 20th Century) in Systems Engineering By C++, Funded by University of ZANJAN
	• 2005: 3D Truss Analyzer by VB Macros in ACAD for Bridge Deformations and Internal Forces as a Term Project
	• 2003: CNC Router Drawing Compiler By VB Macros in AutoCAD, Funded by Mechanical Engineering Department of ZANJAN University
	• 1997: Mensch, a German Board Game, By QuickBasic in MS DOS

PROGRAMMING SKILLS	- Python - Python in ArcGIS - Visual Basic - VB Macros in AutoCAD - VB Macros in Excel - VB Macros in Access - MATLAB - C/C++ - Pascal - Delphi - FORTRAN
OTHER WORK EXPERIENCES	- Supervisor Engineer and Project Manager at Parsian Saze Construction Company, building Luxury Residential Apartments from 2006 to 2013 in Tehran, Iran. - Shop Drawing Controller and Supervisor Engineer in Rokn Sooleh Manufacturer Company 2008 to 2010, Steel Structures Manufacturing in Tehran, Iran.
OTHER COMPUTER SKILLS	- ArcGIS - TransCAD - Maptitude - AutoCAD Civil 3D, AutoCAD - ETABS, SAP, ANSYS - HCS - Microsoft Office, Microsoft Project - Adobe Photoshop, 3D Max
SAMPLE PUBLICATIONS	- Soroushian, A., Rajabi, M., Arghavani, M., Sabzei, A., Yahyapour Reziakolaei, A., Saaed, A., Sharifpour, M. (2012). On the order of accuracy of the quasi-Wilson-Ɵ method. International Conference from Scientific Computing to Computational Engineering (IC-SCCE). Athens, Greece. - Soroushian, A., Bargi, K., Farjoodi, F., Rajabi, M., Saaed, A., Arghavani, M., Sharifpour, M. (2011). Two versions of the Wilson-Tetta time integration method. International Conference on Vibration Problems (ICoVP), (pp. 229-234). Prague, Czech Republic. - Soroushian, A., Saaed, A., Arghavani, M., Rajabi, M., Sharifpour, M. (2011). Less computational costs in the analysis of reservoirs seismic behaviors by time integration. International Conference on Vibration Problems (ICoVP), (pp. 205-210). Prague, Czech Republic. - Soroushian, A., Arghavani, M., Rajabi, M., Saaed, A., Sharifpour, M. (2011). A proposition on the uniqueness of solutions for nonlinear structural dynamic models. International Conference on Vibration Problems (ICoVP), (pp. 199-204). Prague, Czech Republic.

Li, Zhengqi

Date of Birth: Dec. 29th, 1987
Ph.D. Student in Civil Engineering, Clemson University (Aug. 2012-Dec. 2015)
Graduate Research Assistant (Aug. 2012-present)
Advisor: Dr. Prasad Rao Rangaraju
GPA: 3.86 (PhD courses)

Current Research Interests:

1. Self-consolidating ultra-high performance mortar for shear-keys in precast bridge deck connections.
2. Aggregate-silica reaction in ultra-high strength concrete.
3. Damage inspection, rehabilitation, and protection of concrete structure.
4. Asphalt materials and pavements.

Education:

➢ M.S., Structural Engineering, 2012, Tongji University, China
   Thesis: "Experimental study on punching shear behaviors of recycled aggregate concrete slabs".
➢ B.S., Civil Engineering, 2009, Tongji University, China
   Thesis: "Calculation software design for beams under transverse vibration".

Professional Membership

1. American Concrete Institute: 10/2013 - present
2. Precast/Prestressed Concrete Institute: 08/2014 - present
3. American Society of Civil Engineers: 08/2014 – present
4. American Society for Testing and Materials: 09/2014 – present
6. The Institution of Structural Engineers, U.K.: 10/2010 – 10/2011

Professional License

1. Passed fundamentals of engineering exam (China): 2010 – present; aim to obtain PE in China
2. Passed fundamentals of engineering exam (U.S.): 2014 - present; aim to obtain PE in U.S.

Conference Activities:

1. **Speaker**, Precast/Prestressed Concrete Institute: 2014 Convention and National Bridge Conference, "Development of ultra-high performance concrete for shear-key joints construction utilizing locally available materials in South Carolina," 09/2014, Washington D.C.
2. **Speaker** (Co-speaker: Dr. Scott Schiff), American Society of Civil Engineers: North Carolina Section Annual Meeting, "UHPC for shear key joint – use in adjacent precast concrete beam bridges, Part 1 UHPC material development," 09/2014, Asheville, North Carolina.

Publications:

1. **Z. Li**, P. R. Rangaraju, "Effect of sand content on the properties of self-consolidating high performance cementitious mortar." (accepted for 2015 TRB).
2. **Z. Li**, K.V. Harish, P. R. Rangaraju, "Influence of silica flour-silica fume combination on the properties of high performance cementitious mixtures at ambient temperature curing." (under review by editor).
3. **Li, Z.**, Harish K.V., Rangaraju P. R., Schiff, S., "Development of ultra-high performance concrete for shear-keys in precast bridges using locally available materials in South Carolina." Proceedings 2014 60th Anniversary Convention and National Bridge Conference, Washington D.C., Sep. 2014.
4. Prasada R. Rangaraju, Harish Kizhakkumodom, **Zhengqi Li** and Scott D. Schiff, "Development of High-Strength/High Performance Concrete/Grout Mixtures for Application in Shear Keys in Precast Bridges." Technical report, FHWA-SC-13-04a, SPR 682 SCDOT, Aug. 2014.
5. **LI Zhengqi**. "Experimental study on punching shear behavior of waste block contained recycled concrete slab" Master thesis, Tongji University, 2012.
6. **LI Zhengqi**, JIANG Fengchang, LI Wei, ZHU Cimian, XUE Jiansheng, "Punching shear strength of reinforced concrete slabs based on parabola Coulomb-Mohr strength criterion." Journal of Building Structures 2012; 33: 137-141.
7. ZHONG Wenle, **LI Zhengqi,** ZHU Cimian, ZHU Wei, "Experimental study on mechanical and planting properties of porous ecological concrete." Concrete 2012; 6: 131-135.
8. **LI Zhengqi**, XIANG Yang, LI Jiaming, LI Tan, "Properties of porous eco-concrete for plant-

growing." Building Energy Efficiency 2012; 40: 50-53.

9. **LI Zhengqi,** "Studies on properties of porous ecological concrete for plant-growing in China." 2011 Word Congress on Engineering and Technology, Shanghai, China, Otc.2011.

10. **LI Zhengqi**, LI Yuchun, "Influence-surface solution for the bending of rectangular slab with two opposite edges simply supported." The 8th National Civil Engineering Forum for Graduate Students, Hangzhou, China, Nov, 2010.

Course work:

1. Ph.D. courses (GPA: 3.86)
Properties of concrete, advanced reinforced concrete structure design, corrosion, material testing and inspection, asphalt pavement properties, repair and rehabilitation of concrete structure, risk assessment and statistics.

2. B.S. and M.S. courses
Structural mechanics, elastic mechanics, geotechnical mechanics, fundamental structural dynamics, fundamental and advanced reinforced concrete structure design, fundamental and advanced steel structure design, foundation design, fundamental bridge design, timber structure, masonry structure, combined structure, high rise building, earthquake analysis, loading system, finite element method, and construction management.

Awards:

1. Professional Enrichment Grant, Clemson University: 2014-2015
2. Fu Huang Scholarship, Department of Building Engineering, Tongji University: 2011
3. Academic Scholarship: level A, Tongji University, 2009, 2010, and 2011
4. Zhong Da Fellowship, Department of Building Engineering, Tongji University: 2010
5. Outstanding Student Scholarship, Tongji University: 2006 and 2008

Internship Experiences:

1. Jiangsu Provincial No.1 Construction and Installation Co. Ltd, 02/2011-09/2011
   Duties: Research assistant in the post-doctoral research center
2. Weihai Ready-mixed Concrete Group Co. Ltd, 06/2010-09/2010
   Duties: Material testing and product quality inspection
3. Shenhua No.3 Construction and Installation Company, 06/2008-09/2008.
   Duties: Field setting out

Technical skills:

Frequently used	*Casually used*
AutoCAD (2D), Ansys 9.0 (statics analysis), MathCAD, Matlab, Microsoft (Word, Excel, PowerPoint), JMP	Abaqus (statics analysis), AutoCAD (3D), Ansys 9.0 (dynamics analysis), C language, Photoshop

SRIMARUTHI JONNALAGADDA

135 Lowry Hall, Clemson University SC 29634 srimarj@clemson.edu ,srimaru.j@gmail.com 864-722-5112

OBJECTIVE
To enrich my work experience and academic learning with international work practices and standards and contribute to the area of bridge structural engineering.

EDUCATION
Clemson University, Clemson, SC   Dec 15, GPA 4.0
Ph.D in Civil Engineering (Bridge Structures)

National Institute of Technology, Surathkal, India   May 01, GPA 3.8
Master of Technology in Structures

Ahcarya Nagarjuna University, Guntur, India   June 99, GPA 4.0
Bachelor of Technology in Civil Engineering

INDUSTRY WORK EXPERIENCE

Larsen and Toubro (L&T) Construction, Hyderabad India   June 2012- Aug 2013
Engineering Manager - Bridge Design, Hyderabad Metro Rail
- Engineering manager in charge for the design of bridge viaduct for metro rail structure
- In-charge manager responsible for delivery of designs and drawings for eight overpasses
- In-charge for the design of ten mile metro rail viaduct post tensioned box girder bridge
- Performed feasibility studies for general arrangement of viaduct, substructure and foundations
- Lead a team of 12 members which include designers, draftsmen and site engineers
- Coordinated the design process and reviews with other consultants on the project that include L&T Ramboll, CH2MHill (Halcrows), Parsons Brinckerhoff, and checking consultant AECOM.
- Lead the design meetings with interface teams, concessionaire, construction team, local rail transit authority, and government departments.

Sheladia Associates Inc, Maryland USA – Nashik project office India   Sep 2010 – May 2012
Assistant Bridge Design Engineer
- Bridge engineer for proof checking & review of structural designs for federal highway project.
- Performed checking of bridge structural component designs as per IRC specifications.
- Checked designs for seven PSC road overpasses and a post tensioned four mile box bridge.
- The structural spans are 22-40m (70-130 ft) and 3-span PSC continuous girder type.
- Checked designs for culverts, underpasses, and other structures in the project.
- Inspected construction and load testing of bridge structures

VR Siddhartha Engineering College, Vijayawada India   Sep 2009 – Aug 2010
Assistant Professor in Civil Engineering
- Member of Engineering consultancy department of civil and structural engineering
- Checked designs and inspected roads & bridges, buildings, culverts, overhead water tanks
- Performed structural quality inspections of local government civil infrastructure projects
- Laboratory in-charge for structural materials, concrete technology, STAAD
- Taught structural analysis, concrete design, bridge engineering, strength of materials
- Approver and quality certifier for all structural works undertaken by local government

Tata Group, India   Jun 2001 – Aug 2009
Assistant Consultant
- Managed and lead software engineering projects
- Worked for Bank of America at Charlotte, NC office for 3 years
- Delivery in-charge for product design and development

TEACHING EXPERIENCE
Co-Author, Tutor & Teaching Assistant, *Highway Bridge Design Course*   Aug 14-Dec 14
Clemson University, SC

Assistant Professor in Civil Engineering   Sep 09- Oct 10
VR Siddhartha Engineering College, Vijayawada, India

RESEARCH EXPERIENCE
Graduate Research Assistant, Civil Engineering   Aug 13- Present
Clemson University, SC

PhD Abstract:
o   Study of structural deficiency and functional obsolescence of bridges
o   Develop models for assessing and preventing bridge structural capacity deficiency
o   Systems engineering approach for predicting bridge obsolescence

COMPUTATION SKILLS
LEAP bridge enterprise, STAAD Pro, MIDAS Bridge, ETABS, SAP, Auto CAD, Mat Lab 2013, MS office, web design, Java & C Programs, SQL.

FELLOSHIPS AND SCHOLARSHIPS
PCI Jenny Fellowship from Prestressed Concrete Institute   Clemson University, SC 2014
Walter P Moore Fellowship for Structural Engineering   Clemson University, SC 2014
Graduate Research Assistant   Clemson University, SC 2013

ACADEMIC HONORS
UGC Grant (Indian government) for academic excellence   Masters in Structures, 2001
Gold medal recipient, Best outgoing student   Bachelor of Civil Engineering, 1999

TECHINICAL PAPERS
Jonnalagadda, S., Ross, B. E., Plumblee, J.M. (2014). "A model for assessing capacity obsolescence of highway bridges." *Transportation Research Board,* Compendium of papers*, Jan 15*

Jonnalagadda, S., Ross, B. E., Manchukonda, Y. (2014). "The State of Bridge Deficiency in US." *Journal of performance of constructed facilities, ASCE,* Submitted Dec 14

CONFERENCES AND CONTINUING EDUCATION
Presenting at Transportation Research Board (TRB), D.C   Jan 2015
Attended PCI Bridge Design Seminar, Raleigh, NC   Nov 2014
Attended PCI & National Bridge conference, D.C   Nov 2014
Logged 18.25 PDH on Registered continuing education program   RCEP 14

PROFESSIONAL MEMBERSHIPS
American Society of Civil Engineers (ASCE)
Prestressed Concrete Institute (PCI)
Indian institution of Bridge Engineers (IIBE)

FEI XIE

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Home page: http://people.clemson.edu/~feix/

MULTI-DISCIPLINARY STRENGTHS

Transportation	ITS ◊ Transportation planning ◊ Traffic safety ◊ Traffic Simulations ◊ Traffic flow theories ◊ Highway design ◊ HCM, HSM, MUTCD, etc.
Energy Systems	Energy supply chain optimization ◊ Energy infrastructure and logistics
Operations Research	Stochastic programing ◊ Mixed integer programing ◊ Advanced linear programing ◊ Stochastic process ◊ Discrete event simulation
Computer Science	Data structure and algorithm ◊ Object-oriented languages ◊ Network flow programing ◊ Heuristics
Statistical Analysis	Data analysis ◊ Probability theory ◊ Advanced survey sampling

RELATED EXPERIENCE

Glenn Department of Civil Engineering, Clemson University   Aug. 2011 - Present
Research/Teaching Assistant: Transportation & energy system modeling   *Clemson, SC*

- Created multistage stochastic models and designed ND-Max algorithm in optimizing strategic planning (10-20 years) of energy supply chain against time-dynamic uncertainties (ND-Max is 5 times faster than CPLEX)
- Introduced the multimodal transport management systems and bulk solids/fuel inventory systems to the biofuel supply chain operations against seasonality (at least 5% saving of the delivered fuel cost)
- Tackled uncertainty issues of biofuel conversion technology in sustainable biofuel systems design
- Designed a multi-objective planning framework that integrates "environmental thinking" in modeling the transition between the first and the second generation biofuel systems
- Developed database with advanced data structures (e.g., AVL tree and Hash table) and graph theories to manage (dynamically search, insert, delete, and connect) at least 50,000 phone numbers
- Honed communication skills with people from different backgrounds - assisting in courses of Economic Evaluation of Project/Transportation Engineering

Department of Civil & Construction Engineering, OSU   Oct. 2008 - Mar. 2011
Research Assistant: Transportation safety analysis   *Corvallis, OR*

- Established the HSM calibration procedure for ODOT (collected a large set of data of Oregon state highways/surveyed with at least 200 local agencies through phone calls)
- Proved the feasibility of adopting "Safety Edge", an advanced pavement method, for ODOT

SOFTWARE SKILLS

C++ ◊ Java ◊ AMPL ◊ MATLAB ◊ FORTRAN ◊ MySQL ◊ HTML/CSS/JavaScript ◊ Python ◊ LINUX ◊ M.S. Visual Studio ◊ R ◊ S-Plus ◊ ArcGIS ◊ AutoCAD ◊ Synchro ◊ Vissim ◊ Arena ◊ Latex ◊ M.S. Office Suite ◊ CPLEX

PUBLICATIONS

Xie, F., Huang, Y. 2014. A Multistage Stochastic Supply Chain Design for Biofuels under Uncertainty. *Transportation Science* (Under review).

Xie, F., Huang, Y., Eksioglu, S.D. 2014. Integrating multimodal transport into cellulosic biofuel supply chain design under feedstock seasonality with a case study based on California. *Bioresource Technology*, **152**, 15-23.

Huang, Y., Xie, F. 2014. Integrating environmental considerations into multistage optimization of cellulosic biofuel supply chain. *Transportation Research Record* (forthcoming).

Xie, F., Huang, Y. 2013. Sustainable biofuel supply chain planning and management under uncertainty. *Transportation Research Record*, **2385**, 19-27.

Xie, F., Gladhill, K., Dixon, K.K., Monsere, C.M. 2011. Calibration of Highway Safety Manual Predictive Models for Oregon state highways. *Transportation Research Record*, **2241**, 19-28.

Alluri, P., Ogle, J., Xie, F., Gladhill, K., Dixon, K.K., Monsere, C.M. 2011. Comparison of calibration factors obtained using Oregon and Georgia data to implement HSM procedures on two-way two-lane rural roads. *ITE Technical Conference and Exhibit*.

Dixon, K.K., Xie, F. 2012. Evaluation of the "Safety Edge" application in Oregon. ODOT.

Dixon, K.K., Xie, F. 2012. Calibrating the future Highway Safety Manual Predictive Methods for Oregon state highways. ODOT.

SELECTED PRESENTATION

"A Multistage Stochastic Supply Chain Design for Biofuels under Uncertainty", INFORMS (2014) ◊ O.R. Seminar of Math Department at Clemson (2014)

"Design of Multimodal Transportation System for Cellulosic Biofuel Supply Chain", 93rd TRB (2014) ◊ INFORMS (2013)

"Sustainable Biofuel Supply Chain Planning under Uncertainty", INFORMS (2012) ◊ 92nd TRB (2013) ◊ 1st GRADS (2013)

"Evaluation of Safety Edge Application in Oregon", Oregon TAC Meeting (2011)

"Calibrating the Highway Safety Manual Predictive Models for Oregon State Highways", 90th TRB (2011) ◊ Oregon TAC Meeting (2009)

EDUCATION

Clemson University, Clemson, SC — Dec. 2014
Doctorate in Civil Engineering in Transportation — GPA: 4.00/4.00
Oregon State University (OSU), Corvallis, OR — Mar. 2011
Master of Science in Transportation and Minor in Statistics — GPA: 3.95/4.00
Dalian University of Technology, Dalian, China — Jun. 2008
Bachelor of Science in Civil Engineering — GPA: 85/100

PROFESSIONAL ENRICHMENT

Award, Professional Enrichment Grant (5 times, $3; 750 in total)	Feb. 2013 - Present
President, ITS-America Clemson Chapter	Nov. 2012 - Present
Reviewer, PEGAS	Apr. 2013 - Present
Paper reviewer, TRB (Subcommittee ADC80)	Aug. 2013, Aug. 2014
Treasurer, ITE Clemson Chapter	2011 - Sep. 2012
Webmaster, ITE OSU Chapter	Mar. 2009 - Mar. 2010
Member, Phi Kappa Phi, INFORMS, ITS-America, ITE and APICS	Nov. 2013 - Present

Sakib Mahmud Khan
Glenn Department of Civil Engineering
Clemson University
351 Flour Daniel, Clemson, SC 29634
Contact No: 864-569-1082
Date of Birth: 10/13/1990

E-mail: sakibk@g.clemson.edu

EDUCATION

M.S. Student in Civil Engineering	Clemson University, Clemson University, SC, USA
B.Sc. in Civil Engineering	CGPA of 3.81 out of 4.0 **(Honors)** (Major in Transportation Engineering) Merit Position: 8th in a class of 186 students Passing time: 02/12/2013 Bangladesh University of Engineering and Technology, Dhaka-1000
Higher Secondary School Certificate (H.S.C.)	**GPA of 5.0 out of 5.0** Passing year: 2007 Notre Dame College, Motijheel, Dhaka-1000
Secondary School Certificate (S.S.C.)	**GPA of 5.0 out of 5.0** Passing Year: 2005 Ideal School & College, Motijheel, Dhaka-1000

EXPERIENCE & QUALIFICATION

RESEARCH EXPERIENCE
- Compiled the best practices related to on-demand training of Contract Manager for a South Carolina Department of Transportation Project.
- Investigated vehicle depreciation in local roads and national highways of Bangladesh.

ACADEMIC ACHIEVEMENTS AND HONORS
- Dean's List for securing Honors marks in four levels in BUET.
- University Merit Scholarship in all four levels of undergraduate study.
- Bangladesh Government Scholarship in both S.S.C. (Talentful) and H.S.C. (General) for extraordinary results.
- 2nd place award winner in Siemens Mobility Idea Contest 2014.
- Semi-finalist of Inter University Design Contest: joint venture of B-SCAN and ESAB entitled "Universal Accessibility in Public Transportation" and stood 2nd after group stage round.

TEACHING EXPERIENCE
- Worked as a Lecturer (Full-time) in the Department of Civil Engineering, Presidency University since 01/27/2013 to 12/20/2013.
  - > Awarded as Best Junior Lecturer based on evaluation of students.
- Worked as a Visiting Lecturer in the Department of Architecture, BRAC University, Dhaka Bangladesh since 09/06/2013 to 12/20/2013.

PUBLICATIONS

Peer-reviewed Journal Publications
- **Khan, S. M.** and Hoque, M.S., "Analysis of Vehicle Modification Practice in Bangladesh". Accepted for publication in the *Journal of Civil Engineering and Architecture, David Publication*.
- **Khan, S. M.** and Hoque, M. S., "Traffic Flow Interruptions in Dhaka City: Is Smooth Traffic Flow Possible?" *Journal of Presidency University (Science and Engineering)*, Vol. 2(2), Part:B, ISSN: 2224-7610: pp. 46-54, July, 2013. Available at: *http://presidency.edu.bd/uploads/Article007.pdf*
- Sufian, A.A.; **Khan, S.M**.; Ahmed, I.; Islam, S. and Saha, N., "Safety Analysis: Observed Deficiencies in Existing Transport System in Bangladesh", *International Journal of Urban Planning and Transportation (IJUT),* ISSN: 2051-5820, Vol. 27 (1): pp. 1111-1116, June 2013. Available at: *http://recentscience.org/article/uploadfiles/2770248927702489.pdf*

Peer-reviewed Conference Proceedings (National, International)

- **Khan, S.M.,** Dey, K., Rahman, M., Lantz, K. and Chowdhury, M., "Potentials For Intelligent Transportation Systems Deployment In Developing Countries- A Case Study" under review for the Proceeding of the 21st ITS World Congress, Detroit, Michigan, September 7-11, 2014.
- **Khan, S.M.**; Islam, S; Ahmed, I. and Sufian. A.A., "Investigation of Automotive Lighting System in Bangladesh", Published in the Proceeding of *International Conference on Civil Engineering for Sustainable Development (ICCESD),* Department of Civil Engineering, KUET, Khulna, Bangladesh, February 14-16, 2014.
- Ahmed, I.; Sufian. A.A. and **Khan, S.M.,** "Study on the Factors Involved in Truck Accidents in Bangladesh", Published in the Proceeding of *International Conference on Civil Engineering for Sustainable Development (ICCESD),* Department of Civil Engineering, KUET, Khulna, Bangladesh, February 14-16, 2014.
- Sufian. A.A.; **Khan, S.M.** and Ahmed, I., "Non-Motorized Vehicle Accidents: Accident Prone Locations and Road Factors Responsible for Accidents", Published in the Proceeding of *International Conference on Civil Engineering for Sustainable Development (ICCESD),* Department of Civil Engineering, KUET, Khulna, Bangladesh, February 14-16, 2014.
- Hasnine, M.S.; **Khan, S.M.** and Hoque, M.S., "Analysis of Prevailing Fragile Public Transportation System of Bangladesh", Presented and published in the *Proceeding of Global Meet on Sustainable Development*, Dhaka, Bangladesh, June 14-15, 2013.
  Presentation Available at: *http://gm4sd.org/images/gm13/session/4_sami_hasine.pdf*
- **Khan, S. M.** and Hoque, M. S., **"**Analysis of Extent and Impact of Vehicle Modification", Published in the Proceedings of *1st International Conference on Advances in Civil Engineering,* Department of Civil Engineering, CUET, Chittagong, Bangladesh, December 12-14, 2012.
- **Khan, S. M.** and Hoque, M. S., "Vehicle Depreciation Caused By Stop-And-Go Situation In Dhaka City", Published in the Proceedings of *International Conference on Traffic and Transport Engineering* organized by Scientific Research Center Ltd., Belgrade, Serbia, November 29-30, 2012, pp. 131-139. Available at:
  www.ijtte.com/uploads/news_files/ICTTE_Belgrade_2012_Proceedings.pdf

PRESENTATIONS

- 'Tort Liability Risk Prioritization Through the use of Fault Tree Analysis', in the Transportation Research Board (TRB) 93rd Annual Meeting held in Washington, D.C. at January 12-16, 2014.
- 'Analysis of Prevailing Fragile Public Transportation System of Bangladesh', in the Global Meet on Sustainable Development, Dhaka, Bangladesh, June 14-15, 2013.

MAGAZINE ARTICLE

- Khan, S.M. and Chowdhury, M., "ITS for one of the most congested cities in the developing world- Dhaka Bangladesh: Challenges and Potentials", under review for Intelligent Transportation Systems Magazine, IEEE.

PROFESSIONAL SERVICE

- Reviewer, Journal of Traffic and Transportation Engineering, David Publishing Company, CA, USA.

MEMBERSHIPS

- Treasurer in ITS America Clemson University Chapter.
- Executive member in Clemson ITE Student Chapter.
- Member in the Civil Engineering Students' Association (CESA) in BUET (Worked to organize (Stage Decoration) Civil Engineering Festival 2012).
- Friend of TRB Simulation and Measurement of Vehicle and Operator Performance Committee.

EXTRA-CURRICULAR AND VOLUNTARY ACTIVITY

- Worked as a judge in MATHCOUNT competition in South Carolina, USA.
- Participated in the International Award for Young People (Bronze Awardee) organized by The Duke of Edinburgh's Award Foundation, Bangladesh in the year 2011.
- Published articles in national and international transportation engineering magazines.

ALIREZA SHAMS

102 CALHOUN STREET APT 113, CLEMSON, SC 29631; ashamse@g.clemson.edu; (785)477-7074

EDUCATION

PhD Student in Civil Engineering-transportation, Clemson University, Clemson, SC
Since Aug 2014

M.S in Civil Engineering, Kansas State University, Manhattan, KS
May2014

- Thesis Title: "Safety effectiveness of adding by-pass lanes at unsignalized rural intersections in Kansas"

M.A in Urban & Regional Planning, Shiraz University, Shiraz, Iran
Sept2011

- Thesis Title: "Causal Inference of Land Use Decisions in an Agent Based Modeling"

B.S in Survey Engineering, University of Isfahan, Isfahan, Iran
Sept2006

RESEARCH EXPERIENCES

Graduate Research Assistant, Civil Engineering Department Kansas State University, Manhattan, KS
Aug2012-Aug 2014

- "Evaluation of Bypass Lane Safety, Operation and Design in Kansas"

Researcher, Tarh o Manzar Consultant Engineering Company, Tehran, Iran
July2009-Nov2009

- "Revision in Set of Indicators of Deteriorated Texture of Tehran, Iran"

Graduate Research Assistant, Urbanism Department, Shiraz University, Shiraz, Iran
June2008-Feb2009

- "Fars Province Land Development Plan"

TEACHING EXPERIENCES

Graduate Teaching Assistant, Civil Engineering Department, Clemson University, SC
Since Aug 2014

- Geomatics Laboratory

Instructor, Housing foundation of Fars Province, Shiraz, Iran
Jul2010 & Feb 2011

- Application of GIS in Subdivision Regulations
- Introduction to Global Positioning System (GPS)

Instructor, Environmental Health Department, Shiraz University of Medical Sciences, Shiraz, Iran
June2010-Sep2010

- ArcGIS (software), AutoCAD (software)

Instructor, Survey Engineering Department, Azad University of Estahban, Fars, Iran
Sept2008-Feb2010

- Fundamental to GIS, Application of GIS, Cadastre, Land Surveying, Fundamental to Urban Planning and Architecture, Principles of Management in Surveying
- ArcGIS, AutoCAD Land Development

Graduate Teaching Assistant, Urbanism Department, Shiraz University, Shiraz, Iran
Sept2008 – Feb2008

- Surveying

COURSE WORKS

Travel Demand Forecasting for Clemson, SC using TransCAD
Fall semester 2014

WORK EXPERIENCES

Urban Planning Consultant, Tarh o Manzar Consultant Engineering Company, Tehran, Iran
Sep 2009- June2012

- Preparing Comprehensive Plan for Abbar and Saienghaleh, Zanjan, Iran
- Designing Banihashem Street, Tehran, Iran
- Providing Community Plan of 21 Villages in Ardabil, Yazd, and Khuzestan provinces, Iran
- Preparing Subdivision Plan of Mehr Building Project in Sojas and Saienghaleh, Zanjan, Iran
- Designing the Roundabout in Sojas, Zanjan, Iran

Survey Engineer, Sabz Andish Payesh Consultant Engineering Company, Tehran, Iran
Nov 2008-Apr2012

- Preparing Topographic Maps to Design Gharchak Industrial Park, Morvarid Industrial Park, Khorramdare Industrial Park, and Buein Zahra Technical University, Iran

Survey Engineer, Sepahan Kar Azmoudeh Consultant Engineering Company, Isfahan, Iran
Apr2006-June2007

- Preparing the Surveying Maps (scale 1:250) of 25 Villages in Isfahan, Kerman and Hamedan Provinces, Iran

Record the results of surveys including elevation, contour, shape, and location of buildings

Control Survey Engineer, Pars Garma Consultant Engineering Company, Tehran, Iran

May2004-Sept2004

- Transit Road Construction from Yasuj to Boushehr, Kohkilouye Province, Iran

PUBLICATIONS AND PRESENTATIONS

CONFERENCES

Shams Esfandabadi. A, Ghasemi. I, "Dual Cityscape of Rural Town after the Earthquake Strike", National Conference on Urban

Landscape, Tehran, Iran

Nov2010

Shams. A, "Development of an ANN Model to Predict Crash Frequency at Highway Intersections", 2013 ITE Midwestern District

Annual Conference, Milwaukee, WI

June2013

Shams.A, "Developing a Model to Predict Crash Happening at Rural Intersections", IHEEP, Overland Park, KC

Sept2013

Shams.A, Dissanayake. S" Improving safety at rural intersections in Kansas" Research and the State Poster session, Kansas State

University, Manhattan, KS

Oct2013

Shams.A, Dissanayake.S "Safety Effectiveness of Adding Bypass Lanes at Rural Intersections in Kansas Using Case Control Method"ITE 2014Annual meeting, Seattle, WA

Aug2014

PAPERS

Shams. A, Dissanayake. S "Improving Safety at Unsignalized Intersections in Kansas" T&DI Congress, Orlando, FL, June2014

PROFESSIONAL TRAINING

- 24 hours training Courses and workshop of " Complementary of GIS", Iran Urban Planner Engineers Society

    July2012

- 30 hours training Courses and workshop of " Elementary of GIS", Iran Urban Planner Engineers Society

    May2009

AWARDS

Student Poster Winner, Western/Midwestern Joint District ITE Annual Conference, Rapid city, SD

June2014

Student Poster Winner, ITE Midwestern District Annual Conference, Milwaukee, WI

June2013

SKILLS

SOFTWARES

- Arc GIS, Maptitude, TransCAD
- AutoCAD, AutoCAD Land Development, Civil 3D.
- SIDRA, RODEL, VISSIM.
- SAS, Minitab.
- MATLAB

MODELING AND DECISION MAKING

- Travel Demand Forecasting (TDF)
- Artificial Neural Network (ANN)
- Analytic Hierarchy Process (AHP)

LEADERSHIP AND TEAMWORK

- President of Iranian Graduate Students Association (IGSA), Kansas State University, KS

    Feb 2013- Aug 2013

- President of Survey Engineer Students Association, University of Isfahan, Isfahan, Iran

    Sept2003-Sept2005

- Editor of 6th and 7th volumes of Geomatics magazine, Survey Engineering Department University of Isfahan, Isfahan, Iran

LANGUAGES

Persian (Native); English (Good); Arabic (Have Some Knowledge)

NABARJUN VASHISTH

102 Calhoun Street, University Terrace Apt. 232, Clemson, SC 29631
+1 (864)650-7278
nabarjun_vashisth@hotmail.com

CAREER OBJECTIVE:

To be an astute learner and performer so that I can build an innovative career in your esteemed organization by using my technical and communication skills, performance, dedication and hard work.

EDUCATION:

Clemson University, Clemson, SC   May 2016
Master of Science in Civil Engineering   GPA: 3.33/4.00

Amity University, Noida, India   May 2014
Bachelor of Technology in Civil Engineering   GPA: 8.2/10.0

LANGUAGES:

English, Assamese, Hindi, French

EXPERIENCE:

Gammon India Limited, Guwahati Branch, India   May 2013- June 2013
General Site Engineer Intern
- Assisted with the "Design and Construction of a new 107 MLD capacity potable Water Supply Project on turnkey basis for south Guwahati (western part)"
- Inspected the size of different components of the Water Treatment Plant
- Performed various Quality Control Tests
- Researched about the Quality, Environment Management Plan & Safety Guidelines
- Analyzed the working procedures of different components of a Water Treatment Plant

Punj Lloyd Private Limited, Guwahati, India   May 2012-June 2012
General Site Engineer Intern
- Assisted with 4-Laning (Strengthening & Widening) of Guwahati to Nalbari section of NH-31
- Analyzed the Pile Load test & performed other Quality Control Tests
- Surveyed about hindrances in right of way and assessed the frequency rate of accidents and man-hours worked

SKILLS:

- Software: AutoCAD, Maptitude, TransCAD, ArcGIS, Microsoft Office, SAS Studio

- Adaptable & Innovative
- Enthusiasm & Perseverance
- Responsiveness to opportunities
- Team working

AWARDS/ACHIEVMENTS:

- Presented a paper on "Applications of CDM in STPs" in TRACE 2014 (October 2014).
- Cleared upto Grade 3 in practical (guitar) and theory of music. (Exam conducted by Trinity College of London)
- 2nd prize in inter-school rock band competition (2009).
- 1st prize in story-writing competition (2005).

PROFESSIONAL AFFILIATIONS:

- American Society of Civil Engineers (Membership No.: 9596447)
- Institution of Civil Engineers (Membership No.: 71110603)
- Institute of Transportation Engineers (Membership No.: 1051473), and ITE Clemson University Student Chapter

STEPHEN D. FRY

109 Heritage Hills Drive | Seneca, SC 29678 | Cell: (843) 475-2017 | sdfry@g.clemson.edu

EDUCATION

Bachelor of Science, Civil Engineering – Transportation Emphasis
Clemson University

Expected May 2015
3.94 / 4.00 GPA Clemson, SC

COMPUTER SKILLS

- AutoCAD (Civil 3D and English versions)
- Structural Analysis Program 2000
- ArcGIS Desktop 10
- On-Screen Takeoff 3
- JMP Pro 10

EXPERIENCE

Design Engineer and Co-Captain
Clemson Concrete Canoe Team

June 2014 to Present
Clemson, SC

- Designed and tested concrete mixes and materials, including ultra-lightweight aggregates, chemical admixtures, pozzolanic materials, and fiberglass mesh to fabricate a seaworthy canoe out of concrete using graphing capabilities of MS Excel and statistical analysis software JMP Pro 10.
- Performed hull and structural analysis using data analysis functions in MS Excel and shape generation in AutoCAD to obtain design strength and unit weight for canoe.
- Co-authored design paper describing design and construction process.

Mix Design Team Member
Clemson Concrete Canoe Team

January 2013 to June 2014
Clemson, SC

- Produced specimens of concrete and composite mixes and materials, including ultra-lightweight aggregates, chemical admixtures, pozzolanic materials, and fiberglass mesh for the Mix Captain to investigate to produce a concrete canoe mix
- Built Styrofoam hull models to be hydraulically tested in the lake to determine the canoe's best hull design.
- Carved the canoe's bow and stern flotation out of Styrofoam, and ensured their conformance to hull models.
- Patched and sanded concrete canoe to achieve smoothness and sleekness when the canoe is raced in the water.

Undergraduate Research Assistant
Clemson University – Glenn Dept. of Civil Engineering

May 2014 to August 2014
Clemson, SC

- Used ArcGIS to identify and categorize driveways along highways in SC to develop data for an access management study
- Assessed highway data collection vehicles in order to recommend such a vehicle for purchase
- Assisted in the development of a VISSIM model of I-26 by setting gate speeds throughout the network
- Reviewed cases of construction ethics violations to make recommendations on project management training modules

Assistant Geodetic Technician
SCDOT – Dorchester Construction Office

May 2012 to August 2012
Summerville, SC

- Inspected road construction site for proper placement of concrete, erosion control, and traffic control
- Performed quality assurance on concrete placement
- Measured elevations and distances in conjunction with a surveyor
- Updated work reports and cut-and-place sheets for payment

HONORS AND ACTIVITIES

- SCSITE Scholarship ($500) – 2014
- B.P. Barber Scholarship ($2000) – 2013-14 and 2014-15
- William Temple Scholarship Challenge Traffic Bowl ($1000) – 2014
- National Merit Scholarship ($1000) – 2011-15
- Student Member of American Society of Civil Engineers
- Member of Tau Beta Pi – The Engineering Honor Society
- Member of Institute of Transportation Engineers

TIMOTHY OHARA

Central, SC 29630
(609) 680-0028
trohara@g.clemson.edu

OBJECTIVE: My goal is to obtain an internship in the Civil Engineering field in order to improve my knowledge in this area and help obtain a full time position after graduation.

EDUCATION: Clemson University   Anticipated Graduation Dec. 2015
                          B.S. in Civil Engineering   Focus in Transportation

TECHNICAL SKILLS:
- o AutoCAD (expert), Civil 3D, SAP 2014
- o ArcGIS, Maptitude
- o MATLAB
- o Microsoft Office (Advanced)

CURRENT ACTIVITIES:
- o American Society of Civil Engineers (Social Chair
- o Steel Bridge Team
- o Institute of Transportation Engineers (Communications Chair)

OTHER SKILLS:
- o Ability to learn in a fast-paced stressful environment
- o Leadership qualities
- o Excellent time management skills

EMPLOYMENT HISTORY:

Clemson University Parking and Transportation Services   Spring 2015
Engineering Intern
- Maintaining analysis spreadsheets regarding transit, parking, meters, and maintenance.
- Data Collection and surveying of the campus.
- Designing possible expansion of parking lots and new parking facilities

US Soccer Association   2006 to Present

Grade 7 Referee

- As a grade 7 referee I can officiate up to amateur soccer.
- Working with a team of referees, and independently.
- Protecting the players from injury with disciplinary actions.

JCC Medford   Summer 2014
Ropes Specialist
- Ensuring the safety of the climber through the ropes course.
- Helping the campers to build confidence, and teamwork with the other campers through team building exercises on the ropes course.

ENGINEERING EXPERIENCE:

Rain Water Study   2013
- Assist Dr. Testik and his PhD students in collecting, and analyzing rain, or snow data.
- Analyzing the data relating to the velocity, shape, and density of the rain or snow.
- Created experiments to test the accuracy of the data.