

**Georges Elias Bou Saab**

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**Objectives**

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- To be an integral part of a challenging work atmosphere.
- Use my experience, communication skills and logical reasoning skills to learn, grow and achieve given objectives.
- Looking for a career with a well-known organization and good work environment.
- To learn, grow and achieve given objectives with elevated determination and spirit of excellence.

**Education**

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**Iowa State University, Ames IA**

**January 2015 – December 2017 (Expected)**

Doctor of Philosophy in Civil Engineering

Cumulative GPA of 3.89 / 4.00

**Iowa State University, Ames IA**

**January 2013 – December 2014**

Master of Science in Civil Engineering

Cumulative GPA of 3.88 / 4.00

**Thesis:** Evaluation of systemic safety methodologies on low-volume rural paved roadways.

**American University in Dubai, Dubai UAE**

**September 2007 – May 2011**

Bachelor of Science in Civil Engineering

Cumulative GPA of 3.47 / 4.00

**Work Experiences**

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**Iowa State University, Ames IA**

**January 2013 – Present**

Graduate Research Assistant

- Calibrating the interactive highway safety design models for interstates, expressways and two-lane paved roadways in Iowa.
- Assessing consumer acceptance of biofuels in Iowa.
- High friction surface treatment project in Iowa.
- Quality assurance for all states in the Strategic Highway Research Program (SHRP) 2 research project.
- Supplemental data collection for all states in SHRP 2.
- Data collection and reduction for TAPCO (Sequential Dynamic Curve Warning System) project in Missouri and Wisconsin.
- Data collection and reduction for traffic calming project in Iowa.
- Measured retro-reflectivity in Illinois.
- Mid-America Transportation Center (MATC) systematic safety evaluation and prioritization project.

**American University in Dubai, Dubai UAE**

**September 2011 – December 2012**

Mechanical Engineering Laboratory Engineer

- Prepared minutes for the monthly departmental meetings.
- Purchased new equipment for the fluid mechanics laboratory, heat transfer laboratory and manufacturing workshop with a budget of \$164,000.
- Prepared, conducted experiments and assisted students during laboratory sessions.
- Teacher Assistant (TA) for Physics 1 Lab, Engineered Materials Lab, Fluid Mechanics Lab, Heat Transfer Lab and Structural Analysis 2 class.
- Organized workshops for ETABS, SewerCAD, StormCAD and WaterGEMS.
- Organized inter-departmental events and volunteered for spring 2012 commencement.

Khatib and Alami Consolidated Engineering Company, Sharjah UAE

June 2011 – August 2011

Internship

- Rotational internship position in four departments: environmental, quantity survey, structural and transportation.
  - Designed water distribution, firefighting networks and sewerage systems.
  - Performed quantity takeoff exercises.
  - Designed different structural elements using diverse effective software packages.
  - Designed vertical and horizontal curve alignments.
  - Prepared professional design reports.

**Certificates, Professional Associations and Awards**

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- First place in the Missouri Valley Section of the Institute of Transportation Engineers (MOVITE) student paper competition (Thomas J. Seburn Award) - **Fall 2015**
- First place in MOVITE fall meeting student poster competition – **Fall 2015**
- First place in the Mid-western ITE district traffic bowl competition - **Summer 2015**
- Transportation Research Board (TRB) transportation data competition 2015 best paper in safety - **Spring 2015**
- Fred R. White Fellowship - **Fall 2014**
- Institute of Transportation Engineers (ITE) student member - **Spring 2014**
- Midwest Transportation Center Scholar at Iowa State University - **Fall 2013**
- Dean's List with term GPA above 3.67 - **2008 and 2009**

**Languages**

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- Arabic (Fluent)
- English (Fluent)
- French (Basics)

**Technical Skill Profile**

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- Intermediate level proficiency in ArcGIS – Geographic Information System, WaterCAD, WaterGEMS, StormCAD and SewerCAD software.
- Introductory level proficiency in MOVES (Motor Vehicle Emission Simulator), PTV Visum Macroscopic Network Modeling and SYNCHRO.

**Publications**

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- Rista, E., Goswamy, A., Wang, B. Barrette, T., Hamzeie, R., **Bou-Saab, G.** and P. Savolainen. *Examining the Safety Impacts of Narrow Lane Widths on Urban/Suburban Arterials*. Journal of Transportation Safety and Security. March 2016.
- Knapp, K., S. Hallmark and **G. Bou-Saab**. *Systematic Safety Improvement Risk Factor Evaluation and Countermeasure Summary*. Institute for Transportation at Iowa State University. November 2014.
- Online publications in Go! Magazine (ISU):
  - **Bou-Saab, G.**, J. Turner, V. D. Pyrialakou, X. Shi and Y. Huang. Waiting in line: A transportation challenge. Go! Magazine, September 2013. <http://www.go-explore-trans.org/waiting-in-line/>
  - **Bou-Saab, G.**, J. Turner, V. D. Pyrialakou, X. Shi and Y. Huang. Queuing theory in action: Waiting in line for lunch. Go! Magazine, September 2013. <http://www.go-explore-trans.org/queuing-theory-in-action/>

**Conference Presentations**

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- Evaluation of Systemic Safety Methodologies on Low-Volume Rural Paved Roadways
  - MOVITE Fall Meeting – **October 2015**

### **Poster Presentations**

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- Evaluation of Systemic Safety Methodologies on Low-Volume Rural Paved Roadways
  - 4<sup>th</sup> Annual CCEE Graduate Student Council Research Showcase and Poster Competition – **December 2014**
  - Midwestern ITE Annual Meeting – **June 2015**
- Systematic Safety Improvement Risk Factor Evaluation and Countermeasure Summary
  - 2015 Mid-Continent Transportation Research Symposium – **August 2015**
- Effect of Grooving on Longitudinal Pavement Markings Retroreflectivity in Iowa
  - Midwestern ITE Annual Meeting – **June 2015**
- High Friction Surface Treatment on High Crash Locations: Site Selection Process
  - MOVITE Fall Meeting – **October 2015**

### **Service**

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- President of Civil, Construction and Environmental Engineering Graduate Student Council - **Fall 2015 and Spring 2016**
- President of Transportation Student Association (TSA) at ISU - **Spring 2014, Fall 2015 and Spring 2016**
- Civil, Construction and Environmental Engineering Senator for the Graduate and Professional Student Senate (GPSS) - **Fall 2014 and Spring 2015**
- Social Chair for Triangle Fraternity at ISU - **Fall 2014 and Spring 2015**
- Founder Father of Triangle Fraternity at ISU - **Spring 2014**
- Mentor for Engineering Mentors Program at ISU - **Fall 2013**
- Volunteer for International Night held in AUD - **Spring 2011**
- Volunteer for AIDS awareness campaign in AUD - **Spring 2011**
- Event Manager of “Live n Give” Club in AUD - **Fall 2010 and Spring 2011**
- Vice-president of Lebanese Cultural Club in AUD - **Fall 2010**
- Secretary of SGA (Student Government Association) in AUD – **Fall 2009 and Spring 2010**
- Organizer for International Night held in AUD - **Spring 2009 and Spring 2010**
- Organizer for Annual Bridge Competition held in AUD - **2009, 2010 and 2011**
- Reporter for Engineering Alert Newsletter in AUD - **Fall 2008 and Spring 2009**
- Active member of CESA (Civil Engineering Student Association) in AUD - **2008 - 2011**
- Tutor for Pre-Calculus, Calculus 1, Calculus 2, Physics 1, General Chemistry 1 and Introduction to Biology - **2007 - 2011**