

# Curriculum Vitae

Ammar Elfatih Abdelsamed Elhassan

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## Education

**University of Tennessee Knoxville, USA, TN**

Doctoral Candidate in Civil Engineering-Structural Design & Materials

Started January 2016

**University of Tennessee at Chattanooga, USA, TN**

Masters of Science in Civil Engineering-Structural Design & Materials

Construction Management Certificate

GPA: **4.0**, August 2014

**University of Khartoum, Sudan**

Bachelor of Science in Civil Engineering

GPA: **First Class**, September 2010

## Certificates

**Leadership Certificate**

Lipscomb University, USA, January 2015.

**Construction Management Certificate**

University of Tennessee at Chattanooga, USA, August 2014

## Awards

- Excellent Achievement Award as an Outstanding Graduate Student in MS civil engineering and whole MS Engineering. USA, TN - 2013.
- Summer Graduate Research Fellowship Awards, UT Knoxville Office of Research and Engagement's SARIF program, USA, 2016.
- University of Khartoum Prize for the best academic performance. Sudan - 2010.
- Honor Mergane Hamza Prize for the best academic performance .Sudan - 2010.
- Ministry of Dams and Electric Prize for the best academic performance .Sudan -2010
- Honor Dr. Sed Ahmed Aljak Prize for the best academic performance in soil mechanics Sudan -2010
- Ministry of Irrigation and Water Resources Prize for the best academic performance in Hydraulic. Sudan -2010

## Technical Experience

**Research Teaching Assistant/ Doctoral Candidate**

University of Tennessee Knoxville

**January 2016 - Present**

USA, Knoxville, TN

**Civil Engineer**

Tennessee Department of Transportation

**May 2015 - January 2016**

USA, Chattanooga, TN

**Term Research Specialist /Teaching Assistant**

University of Tennessee at Chattanooga,

**Sept 2012-April 2015**

USA, Chattanooga, TN

**Civil/Structural Engineer**

Sudapet, Asawer Oil&Gas ,

**Dec 2010-Aug2012**

Khartoum, Sudan

**Teaching assistant**

University of Khartoum

**January 2012-Present**

Khartoum, Sudan

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## Research Experience

### *Current Research*

- Study Alkali-Silica Reaction (ASR) effects on stress-confined concrete nuclear thick structures.
- Aging Management of ASR affected structure and determination of baseline expansion.
- Evaluate fracture energy of AR affected structures.
- Evaluate damaged concrete and the loss of mechanical properties using petrographic examination and X-Ray techniques.
- Non-Destructive Evaluation for Large-Scale, ASR-Activated, Concrete Mockups.

### *Previous Research*

- Development of TDOT Self-Consolidating Concrete (SCC) mixtures for general use and precast concrete and study the fresh and hardened properties of SCC.
- Study the effect of visual stability index (VSI) on fresh segregation of self-consolidating concrete.
- Evaluation of two pavement rehabilitation techniques for municipal roads using HDM4 software.

## Publications & Technical Reports

### *Publications*

- Elhassan, Ammar Elfatih Abdelssamd, "The effects of Visual Stability Index (VSI) on fresh segregation of self consolidating concrete (SCC) using fly ash class C and F" (2014). Masters Theses and Doctoral Dissertations.
- Ammar El Hassan, Ignatius Fomunung, Joseph Owino, Mbakisya Onyango, "Evaluation of Two Pavement Rehabilitation Techniques for Municipal Roads", Geotechnical Special Publication Nos 236-243, Proceedings of the 2014 Geo-Shanghai International Conference, Shanghai, China 2014. American Society of Civil Engineers 2014.
- Ammar El Hassan, "The Impacts of Visual Stability Index on Flowability and Segregation Properties of Self-Consolidating Concrete", Conference paper TRB 2015 Annual Meeting.

### *Technical Reports*

- Ma, Le Pape, Hayes, Gui, Elhassan, "Identification of mechanisms to study Alkali-Silica Reaction (ASR) effects on stress-confined concrete nuclear thick structures". Oak Ridge National Laboratory, 2016.

## Professional affiliations

- America Concrete Institute (ACI), 2012 – Present.
- American Society of Civil Engineers (ASCE), 2012- present.
- National Society of Black Engineers, 2013 – present.
- Sudanese Engineering Society, 2010 – present.

## Skills

Microsoft Office Package, Finite Element modeling, GIS, AutoCAD, STAAD.Pro, RISA, Primavera6, HDM4, ETABS, MATLAB, EPSC-Level 1, Traffic Control Supervisor.