

# CURRICULUM VITAE

## DR. ALI ABDULLAH ALSAHLI

FACULTY

KING SAUD UNIVERSITY

CIVIL ENGINEERING DEPARTMENT

### *Contact information:*

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## EDUCATION

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**PhD** University of Delaware, Civil Engineering (Railroad Engineering) August 2018  
Dissertation: "Correlating Geometry and Tie Defects  
Using Track Automated Inspection Data"  
GPA ( 3.8/4)

**MCE** University of Delaware, Civil Engineering (Railroad Engineering) August 2016  
Thesis: "A Study on Reducing Derailments at Turnout"  
GPA(3.8/4)

**Railroad Engineering (Certificate)** University of Delaware December 2016

**BS** King Saud University, Civil Engineering June 2012

## TEACHING EXPERIENCE

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Thought couple of course as TA in King Saud University:

1. GE 201: Statics
2. GE 404: Engineering Management
3. GE 402: Management of Engineering projects
4. CE 417: Construction Equipment & Methods
5. CE 432: Highway Laboratory
6. CE 430: Transportation Systems

## PROFESSIONAL EXPERIENCE

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**King Saud University** , Saudi Arabia  
**Teaching Assistant**, Civil Engineering

November 2012 to May 2014

**King Abdullah Financial center** , Saudi Arabia  
**Site Engineer**

July 2012 to October 2012

## RESEARCH EXPERIENCE

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**The Railroad Engineering and Safety program at University of Delaware, USA**  
2016 to 2018

**Position**, Research assistant

Projects completed include:

- Investigation of the Correlation between Track Geometry Defect Occurrence and Wood Tie Condition as Defined by AURORA - Georgetown Rail
- Field Validation of Inspection Gauges for Wheel Climb Safety at Switch Points - Safety IDEA Program /Transportation Research Board /National Research Council

## PROFESSIONAL TRAINING

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**Management Essentials for the Railroad Industry- Course**  
University of Delaware, USA, March 2017

**SABIC**, [Internship], 2011

**The Deanship of Electronic Transactions and Communications** , [Internship], 2008

## PUBLICATIONS

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### *Published Papers*

1. Attoh-Okine, Nii, Pamela Cook, Emmanuel Martey, Truxton Boyce, and **Ali Alshali**. Asphalt rheology and strengthening through polymer binders. No. CAIT-UTC-039. 2016.

### *Papers in preparation*

1. **Alsayli, A.**, Zarembski, A. M.,Palese,J. W., “On confirming the effect of poor tie conditions on geometry track defects”
2. **Alsayli, A.**, Zarembski, A. M., Attoh-Okine, N. O., “Predicting Track geometry defect probability based on tie conditions using pattern recognition technique”

3. **Alsahli, A.**, Zarembski, A. M.,Palese,J. W., Euston, T. L “Investigation of the Correlation between Track Geometry Defect Occurrence and Wood Tie Condition”

### ***Conference Participation***

1. **Alsahli, A.**, Zarembski, A. M., , “Investigation of the Correlation between Track Geometry Defect Occurrence and Wood Tie Condition” International Crosstie & Fastening System Symposium, Champaign-Urbana, Illinois ,2018. *Presentation*
2. Zarembski, A. M., **Alsahli,A.**, and Palese,J., “Investigation of the Correlation between Track Geometry Defect Occurrence and Wood Tie Condition as Defined by AURORA” **Annual Delaware Center for Transportation Conference**, Newark, DE, United States, May 2017.
3. A Research Showcase to highlight current projects funded by the Delaware Department of Transportation and the U.S. Department of Transportation, such as the University Transportation Center awards.
4. Zarembski, A. M., **Alsahli,A.**, and Palese,J., “Investigation of the Correlation between Track Geometry Defect Occurrence and Wood Tie Condition as Defined by AURORA” **"Big Data" in Railroad Maintenance Planning 2017**, Newark, DE, United States, 2017.
5. Zarembski, A. M., **Alsahli,A.**, and Palese,J., “Investigation of the Correlation between Track Geometry Defect Occurrence and Wood Tie Condition as Defined by AURORA” **Transportation Research Board 97th Annual Meeting**. Poster Session at Rail UTC Reception, Washington D.C, United States, 2018.

### **PROFESSIONAL SKILLS**

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#### **Conference Co-Organizer**

**“Big Data in Railroad Maintenance Planning”** , December 2016 & December 2017

### **LANGUAGES**

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**Arabic:** Native Language

**English:** Advanced Reading, Writing, speaking and listening