Jorge Braulio Cossio Duran, Ph.D., A.M.ASCE

(347) 278-3419 • ing-cossio@hotmail.com • https://www.linkedin.com/in/jorgebcduran/ Self-sponsored work authorization through TN Visa (U.S.-Mexico-Canada Agreement - USMCA)

Overview:

- 7+ years of experience on Pavement Management Systems for Airports, Highways, and Railways, and Highway & Pavement Design
- 2+ years of experience teaching Civil Engineering undergraduates and graduates
- Comfortable communicating complex data to lay and technical audiences in written, verbal, and visual formats
- Extensive public speaking experience with superior ability to develop compelling and coherent presentations

Education:	
 University of Sao Paulo – Postdoctoral Researcher on Airport Pavement Roughness 	Brazil, 2019-present
 University of Sao Paulo – PhD. in Transportation Engineering (Infrastructure) 	Brazil, 2015 to 2019
Beihang University, graduate student, International Summer School in Aeronautics & Astronautics	China, July 2018
 University of Sao Paulo – MSc. in Transportation Engineering (Infrastructure) 	Brazil, 2013 to 2015
 National Institute of Technology of Mexico – B.S. in Civil Engineering 	Mexico, 2007 to 2013
Experience:	
Institute of Basic Sciences and Engineering, Autonomous University of Hidalgo	Mexico, 2017-2020
Adjunct Professor – Undergraduate Civil Engineering Program	
Taught +150 students on Construction Materials, Strategic Planning, Traffic Engineering, Urban Systems	, and Highway Design
 Technological Institute of Construction 	Mexico, June-July 2019
Adjunct Professor – Graduate Transportation Infrastructure Engineering Program	
Implemented a condensed course of geotechnics for civil engineers involved in public works	
 Mexican Chamber of the Construction Industry 	Mexico, Aug. 2018
Adjunct Professor – National Water Commission (CONAGUA)	_
Carried out a 4-days course on Integrated Water Resources Management for operational staff with diffe	erent level of knowledge
 Sao Carlos School of Engineering, University of Sao Paulo 	Brazil, JanDec. 2018
Academic Advisor – Specialization course on Transportation Infrastructure	
Provide academic and personal support to 35 Civil Engineers hired by the Ministry of Public Works and C	Communications of Paraguay
 Sao Carlos School of Engineering, University of Sao Paulo 	Brazil, 2014-2018
Lecturer – Undergraduate Civil Engineering Program (two years)	
Updated teaching material and assisted a faculty member to teach and advise undergraduate students to	through the application of effective
learning strategies that improved my teaching skills	0 11
Independent Consultancy on railway, highway, and airport engineering projects	Brazil 2014-2015
1. Develop a manual on functional and structural distresses in the railway permanent way for undergrad	duate and graduate education
programs in Brazil. 2. Perform analysis of economic viability of M&R strategies of flexible pavements with	
effective maintenance plan. 3. Implement of a functional and structural pavement distress survey and c	
Airport resulting in the establishment of an Airport Pavement Management System and a 20-year main	
Certifications:	
 Looking for credentials evaluation through NCEES in order to be able to get EIT certification 	Present
 Basic Pre-hospital Trauma Life Support and Rescue (Brazilian Red Cross) 	Brazil, Nov. 2012
 Damage Assessment and Needs Analysis (USAID) 	Mexico, July 2010
 Basic Emergency Medical Technician 	Mexico, Feb. 2007

Basic Emergency Medical Technician

Skills and Interests:

- Exceptional time-management, teamwork, thinking, and problem-solver skills
- Proficient in MS Office and Project; AutoCAD Civil 3D; Open Roads/MicroStation, IBM-SPSS, and FAA software
- Familiarity with FAA, FHWA, AASHTO, ASTM, ACI, and AI standards, specifications and advisory circulars .
- Languages: English (intermediate), Spanish (native), Portuguese (fluent)
- Interests in Pavement Maintenance & Rehabilitation; Pavement Management; Pavement-Vehicle Interaction

Volunteering:

- Mexican Red Cross Volunteer
- Guidance and Support Staff Volunteer: 2014 FIFA World Cup
- Emergency Medical Technician Volunteer: Under 17 Football World Cup, FIFA

Mexico, 2000-2012 Brazil, June to July 2014 Mexico, June to July 2011

Publications and Conferences: 7 first author; 2 co-author; 7 conference presentations