

Mateo Carvajal

M.Sc. in Civil Engineering

Civil Engineer with a master's degree in Pavements Engineering and over 5 years of field and research experience



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WORK EXPERIENCE

Staff Civil Engineer - Pavement Condition Consultant

Applied Research Associates, Inc.

01/2019 – Present

Gainesville, FL

- On-site Pavement Condition Consultant Engineer supporting ARA's Pavement Performance Consultant Services contract with the Florida Department of Transportation (FDOT) State Materials Office (SMO).
- Develop and maintain applications to facilitate the process of collection, analysis, and interpretation of more than 19,000 miles of pavement condition data with quality assurance purposes. Report data yearly to FHWA.
- Provide data collection assignments to technicians.

Graduate Research Assistant

University of Nevada, Reno

08/2017 – 12/2018

Reno, NV

- Conducted Advanced Laboratory **testing**. Analyzed and summarized data in monthly/quarterly reports.
- Assisted in the accreditation process of the Western Regional Superpave Center (WRSC) laboratory at UNR.

Staff Engineer

National Roads Institute (INVIAS)

11/2016 – 08/2017

Popayan, Colombia

- Identified the needs in terms of construction, rehabilitation, maintenance and conservation of the infrastructure in charge.
- Executed contracting process for low bid projects.

Junior Engineer

University of Cauca

02/2015 – 08/2017

Popayan, Colombia

- Determined the damage to flexible pavement structures attributed to the super-heavy load vehicles designed for cane transportation in Colombia.
- Analyzed and processed data obtained with Falling Weight Deflectometer (FWD) and Ground Penetrating Radar (GPR).
- Conducted pavement analysis and design with software AASHTOWare Pavement ME.

EDUCATION

M.Sc. Civil Engineering

University of Nevada, Reno

08/2017 – 12/2018

Reno, NV ~ GPA: 3.9/4.0

B.Sc. Civil Engineering

University of Cauca / Colombia

08/2009 – 02/2015

Popayan, Colombia ~ GPA: 4.0/5.0

TECHNICAL SKILLS

Pavements Software Skills

ICC Connect, AASHTOWare Pavement ME, PAVER, 3D-Move Analysis, ILLI-PAVE, MODULUS, Rhea.

Autodesk Solutions

AutoCAD, Civil 3D.

Coding

VBA, Python, MATLAB.

Statistical Packages

SPSS, R, Minitab.

Microsoft Suite

SQL, Word, Excel, PowerPoint, Access.

SKILLS

- Pavement Analysis and Design
- Pavement Management Systems
- Data Reduction and Analysis
- Non-destructive Data Analysis
- Back-calculation
- Life-Cycle Cost Analysis
- Problem Solving

CERTIFICATES

- Fundamentals of Engineering (EIT) (11/2018)
- American Society of Civil Engineers (ASCE) (Member since 2018)

LANGUAGES

English Spanish