Mateo Carvajal
M.Sc. in Civil Engineering

Civil Engineer with a master's degree in Pavements Engineering and 4 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 Profiler 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 pavement condition data with quality assurance purposes.
- 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 AASHTO re: source (Formerly AMRL) for 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
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
- Advanced Laboratory Testing
- 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) (08/2018)

LANGUAGES

English   Spanish