

# MIGUEL A. NIEVES KIM

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## OBJECTIVE

To obtain a challenging position utilizing my knowledge and experience in a team of professionals that will offer me the opportunity for personal and professional growth.

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## EDUCATION

AUG. 2001 - PRESENT

UNIVERSITY OF PUERTO RICO- MAYAGÜEZ CAMPUS, MAYAGÜEZ, P.R

Degree Pursued: Master in Science of Civil Engineering with Major in Transportation

(Expected graduation date: May 2003). GPA: 3.90

- Graduate Courses: Transportation Systems Analysis, Transportation Planning, Systems Simulation, Traffic Engineering, Highway Economics, Pavement Management, Pavement Design, Experiment Design

1994 - 2001

UNIVERSITY OF PUERTO RICO-MAYAGÜEZ CAMPUS, MAYAGÜEZ, P.R

B.S. in Civil Engineering, GPA: 2.90

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## WORK EXPERIENCE

AUG. 2002 - PRESENT

UNIVERSITY OF PUERTO RICO-MAYAGÜEZ CAMPUS, MAYAGÜEZ, P.R

Worked as teacher assistant (TA) and Seminar Instructor for Road Engineering Course in the University of Puerto Rico-Mayagüez Campus.

- Prepared and Road Engineering course. Grading of homework's, tests, and projects were also conducted as well as student tutoring.
- Prepared seminar for Engineers and Municipal Secretaries titled "Introduction to the use of Computers and Microsoft Office Applications".

JUNE 2002 - AUG. 2002

US ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER

WATERWAYS EXPERIMENT STATION, VICKSBURG, MS

Worked as a civil engineer in the Airfields and Pavements Branch. Engineering Systems and Materials Division, Geotechnical and Structures laboratory.

- Under the supervision of a project engineer, executed laboratory experiments for Rapid Soil Stabilization. Helped in the data entry and analysis. A draft paper was completed to describe the results as well as a technical report and presentation.

JAN. 2002 - JUNE 2002

UNIVERSITY OF PUERTO RICO-MAYAGÜEZ CAMPUS, MAYAGÜEZ, P.R

Worked as teacher assistant (TA) for Capstone Course in Transportation in the University of Puerto Rico-Mayagüez Campus.

- Prepared and taught transportation engineering course. Grading of homework's, tests, and projects were also conducted as well as student tutoring.
- Under the Entrepreneurial Technical Training and Assistance Program (ETTAP), Technical assistance was given on how to create presentations on MS PowerPoint as

well as tutoring on Oral Presentations to K-12 students under the Garret E. Morgan Initiative.

- Designed and preparing workshops on “ How to do business with the Federal Government using the Internet” for government agencies and private contractors.

*JAN. 2001 -AUG.2001 UNIVERSITY OF PUERTO RICO-MAYAGÜEZ CAMPUS, MAYAGÜEZ, P.R*

Worked as an Academic Assistant for the Summer Transportation Institute (STI) at the University of Puerto Rico, Mayagüez Campus.

- Assisted in the preparation of classes, tutoring, and workshops for interns during the duration of the Internship.

Worked as teacher assistant (TA) for Capstone Course in Transportation in the University of Puerto Rico-Mayagüez Campus.

- Prepared and taught transportation engineering course. Grading of homework's, tests, and projects were also conducted as well as student tutoring.

*AUG. 1999 -AUG.2000 VJI.INC, CHICAGO, ILL.*

Laboratory Manager and Quality Control Supervisor in charge of the development of specifications, testing of materials, R&D, and preparation of technical reports.

*AUG. 1996 -JULY .2000 EVANS GONZALEZ BAKER, DIRECTOR OF OPERATIONS, TRANSPORTATION AUTHORITY OF PUERTO RICO, SAN JUAN, P.R*

Worked as an assistant in the realization of Traffic Studies and Request for Signalization, which included tasks such as Traffic Lane counts and Velocity Counts.

*AUG. 1994 -JULY 1996 VETERANS OUTPATIENT CLINIC, MAYAGÜEZ, P. R*

Worked as Data Specialist for Request of Information, which included the preparation of documents to be sent to private and public entities.

*JUNE 1994 -OCT. 2001 U.S NATIONAL GUARD, CAMP SANTIAGO, FORT ALLEN, JUANA DIAZ, P.R.*

F.O. Specialist assigned to War Planning Staff S-3

- Was in charge of establishing position of enemy forces, alignment and localization of Allied Artillery, and the presentation of Allied and Enemy Artillery Capability for S-3 War Staff.

## SKILLS

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- Fully Bilingual (oral/written)
- Excellent Team Worker with Good Interpersonal Relations, Communication and Leadership Skills.
- Eager to Work and Learn about New Technologies in the Civil Engineering Field.
- Traffic Networks Simulation and Modeling using DYNASMART and SIMAN/ARENA Computer Software.
- Programming Languages: FORTRAN, MATLAB
- Applications: DYNASMART, SIMAN/ARENA, SIDRA, PC-Counts, SPSS, HCS, MS Office, AutoCAD, Water CAD, MS Word, MS Excel, MS Power Point and Internet

## PROJECTS AND PRESENTATIONS

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- “Accelerated Curing of Nontraditional Additives”. Draft paper done by Rosa L. Santoni and Miguel A. Nieves.
- “Economical Analysis of the PR-2 Highway”. Presented to Dr. Benjamin Colucci, May 23, 2002.

- “Analysis of the PR-52 Expressway”. Presented to Dr. Sergio González, Former- Secretary of the Puerto Rico Transportation Authority, May 15, 2001.
- “Pavement Management Analysis of the Roadways in the University of Puerto Rico, Mayagüez Campus”. Presented to Dr. Benjamin Colucci, December 23, 2002.
- “Simulation of Railroads for the Tren Urbano Project”. Presented to Dr. Sonia Bartolomei, December 12, 2002
- “Analysis of the Roadways in the University of Puerto Rico, Mayagüez Campus using simulation software”. Presented to Dr. Didier Valdes and Dr. Benjamin Colucci, December 14, 2002
- “Database for Traffic Assignment for the Puerto Rico Transportation System”. Presented to Evans González Baker, Director of Operations, Puerto Rico Transportation Authority, July 30, 2001.
- “Bio-remediation of Soils and Aquifers: Better Alternatives for the Future”. Seminar, University of Puerto Rico, Mayagüez Campus, May 11-12, 2000.
- “Design of Public Transportation System with Integration to Collective University Transportation System”. Presented at the University of Puerto Rico, Mayagüez Campus, May 8, 2000.
- "Introducción al uso de las computadoras y sus aplicaciones (EXCEL, WORD, POWERPOINT, AND INTERNET)". Seminar presented at the University of Puerto Rico, Mayagüez Campus, October 28-29, 2002.

#### AWARDS AND ACCREDITATIONS

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- Eisenhower Scholarship (2002), Federal Highway Administration (FHA), San Juan, P.R
- First Place in State Physics and Chemistry Contest (1994), University of Puerto Rico, San Juan, P.R
- Second Place in Chemistry Contest (1993), University of Puerto Rico, Cayey, P.R

#### MEMBERSHIPS

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- Institute of Transportation Engineers (ITE)
- American Society of Civil Engineers (ASCE)
- Chancellor of the PHI EPSILON CHI Fraternity
- Member of the College of Engineers of Puerto Rico

#### ACTIVITIES

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- Classical Swimming, Surfing, Chess, and Reading

#### REFERENCES

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- Available upon request