

Raoul Salas

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WORK EXPERIENCE

Florida International University

August 2021 – Present

Graduate Research Assistant

Miami, FL

- Assists in the enhancement of the pavement management software (PMS) StreetSaver® developed by the Metropolitan Transportation Commission in California
 - Review of pavement performance model parameters.
 - Upkeep of conceptual documents for StreetSaver® asset management modules.
 - Research Assistance with program modifications.
 - Research support for StreetSaver® software testing.
 - Research activities to enhance StreetSaver® online help.
- Assists in the development of peer-reviewed scientific journal in the field of pavement management systems.
- Data analysis in the following pavement performance metrics.
 - Pavement Condition Index (PCI).
 - International Roughness Index (IRI).

Nichols Consulting Engineers

July 2020 – August 2021

Staff Engineer I

(Remote)

- Assists in the enhancement of the pavement management software (PMS) StreetSaver® developed by the Metropolitan Transportation Commission in California.
 - Review of pavement performance model parameters.
 - Upkeep of conceptual documents for StreetSaver® asset management modules.
 - Research Assistance with program modifications.
 - Research support for StreetSaver® software testing.
 - Research activities to enhance StreetSaver® online help.

Center for Transportation Infrastructure Systems (CTIS)

January 2019 – June 2020

Undergraduate Research Assistant

El Paso, TX

- Assisted with data analysis related to pavement condition metrics like the International Roughness Index (IRI) and the Pavement Condition Index (PCI).
- Assisted with tasks related to engineering education such as grading assignments.

EDUCATION

Florida International University

August 2021 - Present

Ph.D. in Transportation Engineering

Miami, FL

- Part of the Executive Board of the FIU Florida Engineering Society for the term 2023-2024.

University of Texas at El Paso

May 2021

Bachelor of Science, Civil Engineering

El Paso, TX

- Part of the Executive Board of UTEP Chi Epsilon for the term 2020-2021.

SKILLS

- **Skills:** Bilingual in English and Spanish at a proficient level, data analysis and manipulation for the development of machine learning and deep learning models, AutoCAD and Microsoft Office proficiency, writing of scientific articles.

PUBLICATIONS

Chang, C. M., Smith, R. E., Tan, S., and Salas, R. (2024). How to Estimate IRI Based on PCI Values to Report the Pavement Condition of Local Roads?. Proceedings of the 10th International Conference on Maintenance and Rehabilitation of Pavements. Springer. https://link.springer.com/chapter/10.1007/978-3-031-63584-7_11

Chang, C. M., Ramos, E. S., Nadine, G., Frizzarin, M., Kiran, R., and Salas, R. (2023). Artificial Intelligence Applications for Efficient Road Asset Management Practices. International Road Federation. https://irf.global//ebooks/IRF-White-Paper-23_12.pdf