

Agustin Guerra

Civil Engineer



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agustingu.github.io



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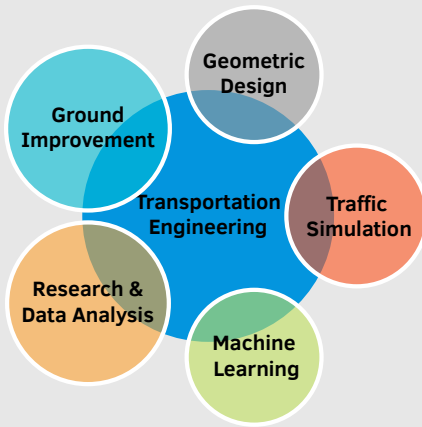
/in/agustin-guerra-h



agustingu

Technical Skills

Overview



Software & Programming Skills

Beginner —————> Advance

AutoCAD C3D • VISSIM • Transmodeler

Python • R • \LaTeX • Infracworks

GEOPACK • HCS • Slide Rockscience

Education

PhD., Civil Engineering

Specialization: Highway & Traffic

University of Florida

2019 - 2023 (Expected) | Florida, U.S.A

MSc., Civil Engineering (GPA: 3.83)

Specialization: Highway & Traffic

University of Kansas

2017 - 2019 | Kansas, U.S.A

BEng., Civil Engineering (GPA: 3.30)

Universidad Tecnológica de Panama

2008 - 2013 | Panama, Panama

Experience

Aug 2019 - Present Graduate Research Assistant

UFTI

- Focused on developing optimization algorithms for urban corridors considering Automated Vehicles capabilities.
- Helped with the deployment of traffic control algorithms for real-world implementation.
- Presented several talks, and posters related to optimization algorithms for Automated Vehicles.
- Assists in coordination for project deliverables.
- **Teaching:** TA for TTE 6267: Traffic Flow Theory.
- **Leadership:** Student representative at the Internal Steering Committee (ISC) at UFTI. Co-chair for the task force student-professional engagement.
- **Projects:** AVIAN.
- **Tools:** Python, numpy, pandas, AMPL, CPLEX, VISSIM, Jupyter Lab, Github, R.

May 2019 - Aug 2019 Highway & Traffic Consultant

WSP

- Provide safety assessments of geometric design, traffic studies, and develop geometric design proposals in the LAC region.
- **Projects:** 4th Bridge over the Panama Canal, Maria Chiquita - Portobelo Corridor.
- **Projects' Summary:** With an estimate \$99.8 million the Four bridge over the Panama Canal is one of the latest and ambitious projects in Panama, it includes two main interchanges on both ends connecting the Pan-American Highway with the main transit terminal in the city.
- **Tools:** AutoCAD Civil 3D, Infracworks.

Jul 2014 - Aug 2017 Highway Engineer

Louis Berger

- Coordination and geometric design for highway projects in the LAC region (Honduras, Panama, Colombia, Peru).
- **Projects:** Corredor Turistico La Barca - El Progreso - Tela, Panamerican Highway (Santiago -Vigui), 1st Metro line in Panama, Corredor Perimetral Oriente de Cundinamarca, Corredor Panama Norte.
- **Projects' Summary:** The cumulative construction amount for all of the projects was about \$1.05 U.S billions, including 7 interchanges, 6 roundabouts and 2 intersections .
- **Tools:** AutoCAD Civil 3D.

Jun 2014 - Nov 2012 Specialist Assistant

Louis Berger

- Assisting with geometric design, traffic signalization, slope stability analysis, DTM development.
- **Projects:** Slope Stabilization Studies 53 km, Hydroelectric Project Chan II, Amador Road Widening, MSE walls Design of Via Expresa Sur Interchanges, Cinta Costera III Marine Access.
- **Projects' Summary:** The cumulative construction amount for the projects was about \$1.3 U.S billions.
- **Tools:** Slide-Rockscience, AutoCAD Civil 3D, Mathcad.

Research

May 2018 - May 2019 MSc. Candidate

University of Kansas

- Thesis:** Modeling discretionary lane changing decisions for connected vehicles based on fuzzy logic.
- Proposed a fuzzy logic model to asses driving behavior during discretionary lane change under a connected environment.
- Perform data processing and statistical analysis.
- **Tools:** SPSS, MiniSim, Driving Simulator.

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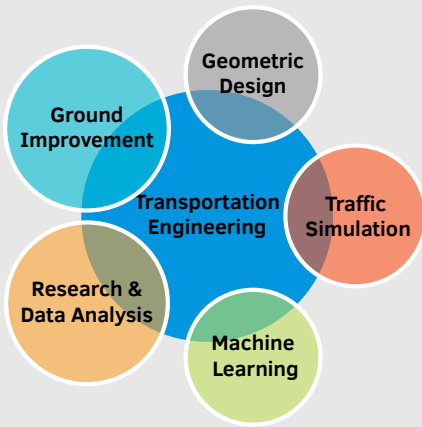
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Publications

To be added.

References

- Aug 2019 - Present **Lily, Elefteriadou PhD** University of Florida
Director of the UF Transportation Institute
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- Nov 2012 - May 2017 **Gabriel, Borrás** WSP Panama
Country Manager
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- Nov 2014 - May 2017 **Sofia, Berger** WSP LAC
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