Agustin Guerra

Civil Engineer

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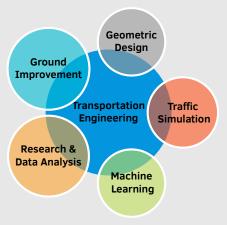
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agustingu

Technical Skills —

Overview



Software & Programming Skills

Beginner → Advance

AutoCAD C3D • VISSIM • Transmodeler

Python • R • 上下EX • Infraworks

GEOPACK • HCS • Slide Rocksience

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 Teconologica de Panama 2008 - 2013 | Panama, Panama

Experience

Aug 2019 - **Graduate Research Assistant** Present

• Focused on developing optimization algorithms for urban corridors considering Automated Vehicles capabilities.

- Helped with the deployment of traffic control algorithms for realworld implementation.
- Presented several talks, and posters related to optimization algorithms for Automated Vehicles.
- Assisted in the coordination for projects deliverable.
- 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 studentprofessional engagement. ITE Student chapter vice-president, 2021.
- Projects: AVIAN.
- Tools: Python, NumPy, pandas, AMPL, CPLEX, VISSIM, Jupyter Lab, Github, R

May 2019 - **Highway & Traffic Consultant** Aug 2019

WSP

UFTI

- Provided safety assessments for geometric design, traffic studies, and developed 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, Infraworks.

Jul 2014 - **Highway Engineer** Aug 2017

Louis Berger

- Coordinated activities of the design team and provided geometric design of highway projects in the LAC region (Honduras, Panama, Colombia, Peru).
- Projects: Corredor Turistico La Barca El Progreso Tela, Panamerican Highway (Santiago -Vigui), Line 1 of the Panama Metro, Corredor Perimetral Oriente de Cundinamarca, Corredor Panama Norte.
- **Projects' Summary**: The cumulative construction amount for all of these projects was about \$1.05 U.S billion. The infrastructures considered were mainly interchanges, roundabouts, intersections, and roads on both urban and rural setting.
- Tools: AutoCAD Civil 3D.

Jun 2014 - **Specialist Assistant** Nov 2012

Louis Berger

- Assisted with geometric design, traffic signalization, slope stability analysis, and DTM development.
- **Projects**: Slope Stabilization Studies 53 km, Hydroelectric Project Chan II, Amador Road Widening, MSE walls Design of Via Expresa Sur Interchanges, Coastal Beltway.
- Projects' Summary: The cumulative construction amount for these projects was about \$1.3 U.S billion. The infrastructures considered were mainly mountainous roads, marine viaducts, and stabilization works.
- Tools: Slide-Rockscience, AutoCAD Civil 3D, Mathcad.

Awards

Aug 2017 - Fulbright Scholarship

EC/

May 2019 Awarded by the U.S embassy in Panama to complete a Master's Degree at the University of Kansas.

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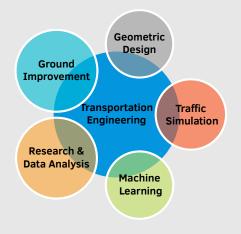
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Research

May 2018 - MSc. Candidate

University of Kansas

May 2019 **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.
- Performed data processing and statistical analysis.
- Tools: SPSS, MiniSim, Driving Simulator.

Social Service

2019 -

Gator ITE Student Chapter

Present

 Served with the Gator ITE Student Chapter on the Adopt a Highway Initiative by the ITE.

2017 -2019 KUFSA

Worked with the Fulbright student chapters at Lawrence, KS assisting with several activities in the community.

2013 -

2017

• Worked with the Louis Berger green team in Panama planting trees. Initiative by the Environment Ministry in Panama.

References

Aug 2019 -

9 - Lily Elefteriadou PhD

Louis Berger

University of Florida

WSP Panama

WSP

Present

Director of the UF Transportation Institute

• Work Phone: (352) 294 7802

- Gabriel Borras

Email: elefter@ce.ufl.edu

Nov 2012 -May 2017

Country Manager

• Cell Phone: +507 6619-5580

Nov 2014 -

• Email: gabriel.borras@wsp.com

1107 201

Sofia Berger

May 2017

Senior Vice President, Advisory Services

• Email: sofia.berger@wsp.com