Agustin Guerra

888-858-6716 | agustinguerra@ufl.edu | LinkedIn | Portfolio

PROFESSIONAL PROFILE

Highly motivated engineering professional with 5+ years of experience in the transportation industry. Committed to providing high-quality service focusing on innovation, safety, sustainability, operational performance, diversity equity, and inclusion. Currently seeking internship opportunities in Data Sciences

EDUCATION

University of Florida   Gainesville, FL
PhD candidate in Civil Engineering   *Aug. 2019 – Expected May 2023*

University of Kansas   Lawrence, KS
MS in Civil Engineering   *Aug. 2017 – May 2019*

Universidad Tecnologica de Panama   Panama, PA
BS in Civil Engineering   *Mar. 2008 – May 2013*

TECHNICAL SKILLS

Expertise: Transportation Engineering, Statistical Analysis, Operation Research, Machine Learning
Languages: Python, R
Developer Tools: Github, Visual Studio
Libraries: pandas, NumPy, Matplotlib, scikit-learn

EXPERIENCE

Graduate Research Assistant   Aug. 2019 – Present
University of Florida   *Gainesville, FL*
- Develops optimization algorithms for corridors considering automated-vehicles capabilities
- Assists on the implementation of optimization algorithm for isolated intersections
- Assists in the coordination of projects activities to meet deadlines
- Worked on data manipulation using R packages, MICE
- Developed predictive models (Linear Regression, GAMS, Random Forest, Neural Network) for crash estimation,

Highway & Traffic Consultant   May 2019 – Aug. 2019
WSP   *Panama*
- Provided safety assessment for roadways, interchanges, and intersections
- Developed geometric design proposals
- Conducted earthwork estimation for highway projects

Highway Engineer   Nov. 2012 – Aug. 2017
Louis Berger   *Panama*
- Developed geometric designs for proposal and as-built drawings for highway projects. Project portfolio comprises several projects in the Latin American region (Panama, Colombia, Honduras, and Peru) adding up to $3 billion in construction amount
- Coordinated with different departments (geotechnical, hydraulic, and pavement) to meet deadlines
- Developed digital model terrain for highway projects
- Assisted with slope stability analysis
- Supervised and trained drafter team (4 people)

AWARDS & SERVICE

ITE Student Chapter VP: Coordinated student seminars and ITE activities

Student Representative at the Internal Steering Committee at UFTI: Promoted engagement activities between industry professionals and students

Fulbright Fellowship: Awarded by the U.S Bureau of Educational and Cultural Affairs to complete a Master's Degree at the University of Kansas

Global Best Project in Roads and Highways: Awarded by the ENR for the Coastal Beltway project in Panama

References

Lily Elefteriadou, PhD: Barbara Goldsby Professor, University of Florida   elefter@ce.ufl.edu
Aurora Izquierdo: Civil Structural Engineer II, WSP   Aurora.Izquierdo@wsp.com
Juliana Canas: Senior Advisor, First Climate   juliana.canas-vanegas@firstclimate.com
Julio Aysa: Env./Social and Governance Lead Officer, IDB   jaysa71@yahoo.com.mx