FELIPE LEITE, E.I.T.

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**Areas of expertise include:**

* Road profiles, alignments, contours, roadway design
* Hydrologic and hydraulic models and floodplain analysis using HEC-RAS and HEC-HMS
* Sustainable design, best management practices, and green infrastructure
* Report writing and technical presentation creation 
* ASTM standard testing procedures, instrumentation use, installation, and monitoring
* Experience with some Fairfax/Washington DC Design Guidelines

**PROFESSIONAL EXPERIENCE**

**DEWBERRY -** Fairfax, VANovember 2018-Present

**Water Resources Engineer**

* I create detailed models (HEC RAS, HEC HMS, and ArcGIS) using real world survey data for structures and channels and calibrated to correctly model real-world flooding.
* I conduct QA/QC for the designs and models of my fellow coworkers, including water quality models, dam breaches, and stormwater management.
* I write technical documents for clients, create and give presentations, and take on task managing roles within our project teams.
* Example projects include:
	+ Creating a highly detailed HEC-RAS model for the Nature Conservancy. Using geospatial python coding, a tool was created that allowed the Nature Conservancy to find the best locations for new green infrastructure in the Anacostia Watershed in Washington, D.C. This project resulted in green infrastructure installation.

**ENGINEERING AND SOFTWARE CONSULTANTS, INC., *at FHWA Turner-Fairbank Highway Research Center* -** McLean, VA

**Lab Technician** May 2018 - October 2018

* I set up multiple unique lab experiments, including long term test piers, freeze thaw durability chamber, geosynthetic tensile tests, using ASTM standards.
* I collected data and interpreted results such that government officials could make policy changes to AASHTO and VDOT regulations.

***URBAN LTD –*** Annandale, VA Nov 2017-May 2018

**Engineering Intern**

* I was part of the design group responsible for tasks including road profiles and roadway design, road and pipeline alignments, watershed analysis and floodplain analysis using ArcGIS, HEC-RAS, and cost estimation for new subdivisions.
* I designed multiple green infrastructure installations with assistance from other engineers.

***CELPLAN TECHNOLOGIES, INC. –*** Reston, VA Jul 2015 - Nov 2017

**Engineering Assistant**

* I assisted in the calibration and development of new software and databases.
* I conducted equipment setup, model calibration, and usage of data logging devices to obtain results from survey information. Using these results, I created charts, reports, and graphics.
* I was part of a team that designed data connection points on new Amtrak trains and updated company’s entire topography database with little supervision

**EDUCATION**

**B.S. in Civil and Infrastructure Engineering** - George Mason University (Graduated May 2018)

**PROFESSIONAL CERTIFICATIONS**

**Engineer in Training, Certificate #XXXX**– State of Virginia (DATE)