

Eric Rafael Rivera Weaver: Resume



Mr. Weaver has extensive experience with solving problems. He has an innate ability to see broader perspectives to formulate creative solutions, often acting as an innovation catalyst. Thus, he is primarily an [Inventor](#). He learns tools quickly, and applies processes in unique ways.

He easily articulates a flexible shared vision that evolves with circumstances working as a transformational educator and entrepreneurial leader. He has the unique ability to recognize intellectual needs and identify talents for engaging cross-disciplinary teams. He has excellent interpersonal skills, and a relaxed and welcoming style to inspire and energize others.

His vision of future advancements inspires the strategic process. He works to achieve goals by using systems thinking skills integrated with current science to gain team commitment. Similarly, he fosters commitments from diverse stakeholders through shared buy-in. He prefers to deal with the big picture, to hire and delegate tasks, but also knows enough about the specific software and tools necessary to be sure tasks are adequately completed.

His professional career included the StormWater Management Model (SWMM). He BETA tested the original [EPA SWMM Program](#) while under development at the University of Florida, and has remained involved with its continued development. He has solved a wide variety of critical flooding issues in Florida through his relentless solutions focus. Currently, Hillsborough County's [SWMM](#) program activities include FEMA approval for using their revised edition in Flood Plain delineation.

SKILLS

Creating Solutions: Mr. Weaver reviews staff expertise and company resources to innovate better techniques for attaining goals. His team building skills have been successful in the classroom settings, for volunteer service learning, and professional offices. He is inspired by long-reaching issues such as community education and sustainable infrastructure development.

SWMM Model Analysis: He has the technical skills to investigate the impacts of new construction. Flood studies he completed for existing landowners have shown quantitatively that construction on adjacent waterways can directly impact existing site water levels. Model results often increase existing buildable land areas. Several Court Judges have reversed Florida State construction policy based on his analysis.

Integrated Patent Development: Mr. Weaver has prepared and completed several Patent Searches, Drawings, and Applications. He easily comprehends inventions to assist with complete prototyping and patenting.

General Civil Design: He has integrated computer applications to compile GIS data, prepare CAD drawings and completed legal exhibits for instant digital submittal via broadband technologies.

Teaching: He has had an incredible experience teaching [his own children](#) and actively shares this passion in courses based on Active Team-Building to enact Solutions as discussed in detail within his [digital teaching portfolio](#).

REPRESENTATIVE PROJECTS

PROFESSIONAL EXPERIENCE

TEACHING EXPERIENCE

COMPUTER PROGRAMS

Education:

University of South Florida, Tampa, Florida

- **2017-Ph.D: Doctorate of Civil and Environmental Engineering** -- Focused dissertation research on the synergy between his civil engineering infrastructure experience and his passion to create an alternative: "Sustainable Development through Urban Agriculture" (dissertation certified 3/8/2017).
- **2009-MSM: Master of Science in Management: Leadership and Organizational Effectiveness** -- Explored new project development supported by the professors who encouraged him to continue in academia, where he obtained a 3.46 GPA. Accepted to multiple colleges proposing the breakdown of the silos with evolution to the sustainable 3D-Ph.D.
- **2009-MBA: Masters of Business Administration** -- Centered efforts on entrepreneurship, where the program director allowed him to audit/repeat courses to support new patent development.
- **1998-BSCE: Bachelors of Science in Civil Engineering** -- Readmitted when Hillsborough County sent him back to expand his skills and abilities, while he investigated new web priorities and software techniques simultaneously tested by both institutions.
- **1988-BSE: Bachelors of Science in Engineering** -- Created his own engineering degree completing "projects-for-credit" each term finding a creative expression that could fit into the required curriculum. This was paired with his service-learning work later incorporated into STARS USA Inc.

Certificates:

- Building Sustainable Enterprise Graduate Certificate, USF Summer 2009
- Entrepreneurship Graduate Certificate, USF Summer 2007
- Management Graduate Certificate, USF Summer 2009
- Engineer Intern 1089ET254, May 14, 1990

Activities:

- **[STARS USA Inc.](#)** (Students Taking an Active Role in Society) STARS USA Inc. 2008 E Patterson St. Tampa, FL -- Co-Founded the public charitable corporation to facilitate service-learning projects with volunteer students. Duties included creating proposals, presentations, grants, articles of incorporation, and taxes as needed for 501(c)3 business operations. Completed multiple projects involved in the public as class credit activities for over 30 years organizing teams, coordinating projects, and encouraging peers who developed original Community Emergency Response Team (later Tampa CERT) and the Reg-Eze, Class-Mate, Key-Mate, and Ride-Mate software products eventually sold privately to multiple universities.
- ASCE - West Coast Branch Member.