

Sana Moran

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EDUCATION

Texas A&M University, College Station, TX
Master of Science in Civil Engineering May 2022
Concentration: Structural Engineering
Diversity Fellowship Award Recipient (\$75,000)
Bachelor of Science in Civil Engineering May 2016
Concentration: Structural Engineering
Magna Cum Laude Latin Honors

EXPERIENCE

Spartan Premier, LLC

CEO / Co-Founder March 2022 – Present

- Founded the company for the purpose of inventing new roadside safety, infrastructure protection, and perimeter security products.
- Oversee all operations that involve expanding the company and managing business finances.
- Create and maintain ownership of intellectual property through patent development and collaboration with IP attorneys.
- Identify company growth opportunities through investments and partnerships.

Easi-Set Worldwide/Smith-Midland Corporation

Director of Technical Business Development May 2022 – Present

- Conceptualize deliverables, select and apply appropriate analysis techniques and procedures to ensure the accomplishment of objectives, and develop and implement growth opportunities.
- Develop and analyze new and current products as well as potential new techniques, policies, procedures, and recommendations.
- Interact with state DOT officials, building code officials, third party testing services, intellectual property services, product specifiers, and other organizations.
- Author and co-author technical reports, guidebooks, product specifications, product articles, and other works.

Safe Stop Barrier Systems, Columbus, TX

Vice President September 2020 – March 2022

- Furthered company expansion by developing the company business model and oversaw the mergers and acquisitions team for the purpose of seeking investors in company products.
- Managed intellectual property through development of patents and collaboration with IP attorneys.
- Led the design and development of innovative roadside safety and infrastructure protection products.
- Designed a crash testing facility in which over thirty full-scale crash tests of vehicles ranging in size from small cars to 18-wheelers going speeds of up to 75 mph were conducted.
- Collaborated with the marketing team to develop the company logo, merchandise, product technical sheets, and website.

Chief Development Officer (CDO) April 2020 – September 2020

- Aided in creating the business foundation as part of a startup company and facilitated company expansion.
- Designed innovative roadside safety products by utilizing intricate analysis methods.
- Developed prototypes and molds to be used in short-run production for testing various systems.
- Created manufacturing processes for product development.

Texas A&M Transportation Institute (TTI), College Station, TX

Assistant Transportation Researcher Full Time: May 2018 – April 2020, Part Time: April 2020 – May 2022

- Designed, analyzed, and supervised the full-scale crash testing of various concrete roadside and median barriers, bridge rail systems, guardrails, guardrail and concrete barrier transitions, and other roadside safety devices.
- Developed and analyzed roadway infrastructure and physical security systems such as bridge rail systems, thrie beam and W-beam transitions, guardrails, security fences, security bollards, and cable rail barriers.
- Authored and co-authored over 50 research reports and journal articles.

Structural Engineering Graduate Assistant Researcher

August 2016 – May 2018

- Created large-scale spreadsheets that can efficiently assess the adequacy of bridge rail systems and other rigid roadside safety barrier systems.
- Evaluated many bridge rail systems in the United States under a large-scale project for the purpose of transitioning these bridge rail systems to a new standard known as *AASHTO MASH*.
- Developed thorough new designs and retrofit designs of roadway infrastructure such as bridge rail systems, thrie beam transitions, W-beam transitions, security fences, and drop-arm systems.

Structural Engineering Student Technician

May 2014 - August 2016

- Designed and analyzed roadway infrastructure such as bridge rail systems, concrete barriers, guardrails, security bollards, security fences, and drop-arm systems.
- Applied technical drafting skills in order to design and analyze roadway safety and physical security systems.

CONFERENCE PRESENTATIONS

Transportation Research Board (TRB) AFB20 Midyear Meeting, Reno, Nevada July 2019

- Presented on various roadside safety research projects conducted at Texas A&M Transportation Institute (TTI) – Joint Meeting of the AASHTO Committee on Design and Council on Active Transportation in collaboration with TRB Roadside Safety Design Committee (AFB20)

https://active.transportation.org/wp-content/uploads/sites/53/2019/08/2019-COD_CAT-final-agenda.pdf

Task Force 13, College Station, Texas

September 2019

- Presented on various roadside safety research projects conducted at TTI – Task Force 13 Joint Meeting with the Roadside Safety Pooled Fund

Roadside Safety Pooled Fund, College Station, Texas

September 2019

- Presented on numerous research projects that I had performed and expected to perform in the upcoming year at TTI through the Roadside Safety Pooled Fund – Roadside Safety Pooled Fund yearly meeting

AFFILIATIONS

Member, Task Force 13

AKD20 Committee of Transportation Research Board (TRB)

Member, American Society of Civil Engineers (ASCE)

Member, Chi Epsilon Honor Society in Civil Engineering, Texas A&M University

INTERESTS & SKILLS

Entrepreneurship, Business Development, New Product Development, Intellectual Property

Roadside Safety Barriers and Devices, Physical Security and Infrastructure Protection Products and Structures, Structural Design, Dynamic Structural Analysis, Simulation, Bridge Engineering

Advanced knowledge of Microsoft Office (Word, Excel, PowerPoint, Outlook), Bluebeam Revu, SolidWorks, Matlab, Mathcad

Familiar with Solidworks Simulations, LS-DYNA, LS-PrePost, AutoCad, STAAD, ETABS, and SAP

Tyler Skinner

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EDUCATION

Lamar University, Beaumont, TX
Major: Civil Engineering
Overall GPR: 3.50

Graduation: May 2017

EXPERIENCE

Spartan Premier, LLC

President / Co-Founder

March 2022 – Present

- Founded the company for the purpose of inventing new roadside safety, infrastructure protection, and perimeter security products.
- Manage business finances.
- Create and maintain ownership of intellectual property through patent development and collaboration with IP attorneys.
- Identify company growth opportunities through investments and partnerships.
- Oversee product development and preliminary crash testing.

Easi-Set Worldwide/Smith-Midland Corporation

Engineering Specialist

May 2022 – Present

- Conceptualize deliverables, select and apply appropriate analysis techniques and procedures to ensure the accomplishment of objectives, and develop and implement growth opportunities.
- Develop and analyze new and current products as well as potential new techniques, policies, procedures, and recommendations.
- Develop specifications and detailed drawings of products utilizing engineering/modeling software.
- Author and co-author technical reports, guidebooks, product specifications, product articles, and other works.

Safe Stop Barrier Systems, Columbus, TX

March 2021 – March 2022

Research Specialist

- Develop roadside safety and infrastructure protection.
- Create CAD drawing roadside safety and infrastructure products.
- Develop patent documents and drawings.
- Perform preliminary full scale crash tests.

Chambers County Road and Bridge, Anahuac, TX

June 2019 – March 2021

Engineering Graduate

- Completed reviews of subdivision plans and inspections of new subdivision roads to determine if the roads will meet the county's standards to become county roads.
- Managed and inspected multiple projects including asphalt, concrete, cement stabilized base, and limestone base.
- Completed hydrology reviews to determine detention/retention ponds and drainage maps to determine new road construction and culvert sizing.
- Completed multiple project cost estimates for various projects in the county.

Texas A&M Transportation Institute (TTI), College Station, TX

May 2017 – May 2019

Structural Engineering Student Technician

- Design and analysis of roadway infrastructure including bridge rails and other roadway safety devices.
- Apply technical drafting skills to design and analyze roadway safety infrastructure under the supervision of William Williams (M.S., P.E.).

Bellhops, College Station, TX

February 2013 - January 2014

Co-Campus Director (Internship)

- Managed forty college students for a nationally recognized moving company

- Oversaw several major installment jobs of major apartment complexes across College Station area
- Learned how to manage an entire moving company through advertisements, job outreach programs, etc.

ACTIVITIES

First Baptist Church Group, Woodville, TX

June 2008 - June 2012

Leader/Coordinator

- Lead group of other youths on mission trips, worship, and meetings
- Coordinated gatherings and functions
- Helped plan various community service activities across Southeast Texas

HONORS

Chi Epsilon

Spring 2016

- Civil Engineering Honor Society
- Marshall of Chi Epsilon
- Accomplished various community service activities in the Beaumont area

Lamar University Presidents List

Spring 2016

Lamar University Deans List

Spring 2017

SKILLS

- Advanced knowledge of Management/Leadership Skills, SolidWorks, and AutoCAD Civil 3d
 - Also familiar with STAAD, C++, and MicroStation