Dan J. Carroll, P.E.

San Antonio, Texas

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Civil Engineer

Recognized expert in Engineering Design and Development, Experienced in All Aspects of Project Delivery

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TECHNICAL PROFICIENCIES

Analysis: Traffic Impact Analysis (CoSA), Corridor Modeling, Traffic Signal Timing, Parking, Toll Plaza Operations, Traffic Signal Warrants

Design: Highway, Road, Multi-level Interchanges, Roundabout, Signal, Pedestrian Facilities, Hydraulic, Hydrologic, Signing, Striping, Traffic Control,TCEQ

Software: MicroStation, ProjectWise, InRoads, Geopak, Synchro, HCS, TRANSYT-7F, TSIS-CORSIM

PROFESSIONAL EXPERIENCE

Software Developer (2016 - Present)   Whisker.net
PIC Business

Technical Scope:

Updating enterprise resource planning software for the window coverings, apparel and promotional products industry at PIC Business.

Developed innovative software solutions for a travel deals startup, creating travel information content on flight deals to select cities/locations at Whiskr.net.

Deputy Project Manager/Project Engineer (2008– 2016)   HNTB

Technical Scope:

Facilitated the successful transition of projects from inception through to completion. Served as the primary operations interface for all development activities including technical design, professional services procurement, schedule coordination, and final product delivery. Led quality control efforts, and activities related to adherence to organizational and industry standards, budget requirements and compliance with applicable regulatory protocols.

Key Achievements:

- Credited with leading the roadway design for San Antonio's first toll highway system on Interstate 35. Effectively utilized InRoads 3D modeling and analysis design techniques to design three multi-level highway interchanges connected to 18 miles of elevated toll lanes.
- Conceptualized and designed a roundabout for Galm Road at Government Canyon State Natural Area that significantly improved safety and reduced construction costs and right-of-way roadway expenses by $1M. As the project engineer, designed roadway, drainage, signing, striping, construction phasing, and SAWS utilities.

Project Engineer • Traffic Engineer (2001 - 2008)   Camacho-Hernandez • Jacobs Engineering
Lockwood, Andrews, Newnam • Pape-Dawson Engineers

Technical Scope:
Responsible for the design and preparation of PS&E documents for major roadway systems, to include frontage roads, traffic control plans, traffic engineering, and drainage.

Key Achievements:

- Led the traffic control and construction phasing design team for the I-30 interchange project in Texarkana that included a new trumpet interchange and six reconstructed diamond interchanges.

- Performed and guided over 20 land development traffic impact studies for major local developers and companies through City of San Antonio's approval process.

- Modeled traffic operation for eight arterials with over 70 signalized intersections and developed peak hour timing plans to improve traffic flow.

*Additional experience as a **Space Operations Officer** for the United States Air Force*

EDUCATION AND TRAINING

Master of Engineering – Civil Engineering
Texas A&M University, College Station, Texas

Bachelor of Science – Civil Engineering
Texas A&M University, College Station, Texas

Bachelor of Science – General Studies
United States Air Force Academy, Colorado

Technical Certifications
Licensed Professional Engineer (Texas) 95615
Red Hat Certified System Administrator 170-111-850

Professional Development
Linux System Administrator Program - Rackspace Open Cloud Academy
Full-Stack Web Development Program – Codeup

TxDOT Pre-Certfications

3.1.1	Route Studies & Schematic Design - Minor Roadways
3.2.1	Route Studies & Schematic Design - Major Roadways
3.4.1	Minor Bridge Layouts
4.1.1	Minor Roadway Design
4.2.1	Major Roadway Design
7.1.1	Traffic Engineering Studies
7.3.1	Traffic Signal Timing
8.1.1	Signing, Pavement Marking And Channelization
8.3.1	Signalization
10.1.1	Hydrologic Studies
10.2.1	Basic Hydraulic Design