

MARBERT MOORE

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PROFESSIONAL SUMMARY

- **Leadership** – Experienced building and leading teams of engineers in completion of large, complex projects.
- **Program Management** – Management of multiple projects including budget forecasting and tracking, and cost control.
- **Mechanical Design & Engineering** – Highly experienced with automated electro-mechanical equipment design and analysis.
- **Patent Experience** – Accomplished in using SolidWorks to prove and submit multiple design patents (3 issued, 1 pending).

EXPERIENCE

2004 to Present – WILLOW STREET DESIGN

President, Sr. Engineer (Liberty Hill, TX)

Providing full range of engineering services for several electro-mechanical projects, ranging from business plan writing to finite element analysis (FEA with Simulation) and design work.

- Automated equipment design and analysis for oil & gas, semiconductor and industrial businesses.
- FEA/Structural analysis to optimize design, reduce costs, and improve performance.
- Vibration analysis to minimize dynamic deflections and settling times.
- Electrical System Design for both controls (instrumentation/sensors) and power (AC/DC).
- Electronics Packaging for Oil & Gas, Aviation and Commercial Security systems.



Willow Street Design

2022 to 2022 - ICON

Principle Consulting Engineer (Austin, TX)

Served as principal technical resource responsible for development of engineering team and new equipment/technologies in addition to optimizing established production equipment.

- Identified key design issues resulting in decreased downtime and improved performance.
- Provided conceptual designs for 3D print head for dispensing concrete.



2013 to 2019 – CLEARCORRECT

VP of Engineering/R&D (Round Rock, TX)

Reporting to the CEO, responsible for development of new processes/technologies, maintaining production equipment and modifying all building facilities (electrical, HVAC and water).

- Helped guide the growth of the company from \$12M/yr. to \$50M/yr. resulting in acquisition by Straumann.
- Primary problems addressed: equipment uptime/availability, expansion of production capacity and overall reduction of reject rate from 25% to 3%.
- Designed Robotic Cutting Station for cutting 3D curvilinear path for dental appliances.
- Provided installation/optimization and qualifying of new 3D printer technologies/methods.
- Engineered centrifugal/vibratory tumbling processes for advanced cleaning of 3D printed parts.
- Engineered thermoforming equipment for molding dental appliances, development/enhancement.
- Developed advanced part marking methods for laser marking and vision Systems.
- Provided selection, installation and qualification for production of CT scanners.



2006 to 2008 – DEEPFLEX INC

Director of Engineering, Project Manager, Sr. Engineer (Houston, TX)

Designed and built equipment used to fabricate flexible pipe for the Oil & Gas industry.

- Designed & engineered hydraulically powered under-roller for rotating 30-foot diameter welded structure.
- Designed & engineered electrically powered 75-foot diameter rotating platform for carrying 3.5 million pounds.
- Designed & engineered web handling equipment for creating rolls of tape (.03 in. thick) 7 feet in diameter at 300 rpm.
- Designed upgrades for 25-foot diameter rotating structure carrying 72k pounds at 6 rpm.





2003 to 2004 – CONCURRENT DESIGN

Program Manager, Sr. Engineer (Austin, TX)

Managed team of engineers (17) performing the design & development of a new Etch tool (semiconductor capital equipment) on a project that had a \$1.35 million dollar budget. Responsible for all customer interfacing, design of system architecture (mechanical and electrical system) and specification of purchased items. Engineered tool that outperformed specifications.

- Specification and incorporation of robotic wafer transfer system.
- Design of robotic mechanism for wafer centering and precision location (+/-50 microns).
- Design of specialty gas evacuation intakes using Computational Fluid Dynamics.
- System design of specialty gas (inert/toxic) and fluid (coolant) control/delivery.

EDUCATION

TEXAS A&M UNIVERSITY, College Station, TX

B.S. Mechanical Engineering Technology.

PATENTS

Modular Carousel Assembly	2010-02-23, US# 7,665,685/B2
Layered Tape Guide Spool	2010-08-31, US# 7,784,723/B2
Batch Thermoformer	2019-05-14, US#10,286,594/B2
(Pending) Multi-Material Building of Complex Part with 3D Printers	

ADDITIONAL SKILLS

- **Heavy Construction** - Municipal water tanks, highway bridge construction, water/sewer line jobs and specialty commercial buildings and facilities.
- **Semiconductors** - Test Engineer, Systems Architect, and Project Manager for semiconductor capital equipment projects
- **Automotive and Airplane** – Experienced with automotive restorations, motorcycle customizations and fabrication of experimental aircraft.
- **Electronics Packaging** – Design and prototyping of electronic technology devices for large and strategic projects for clients like US Department of Defense, Lucent Technologies, and Centerpoint Broadband Technologies.
- **Medical Technologies** – Developed automated blood mixer for Abbot Laboratories and batch thermoformer for dental appliances resulting in successful patent application.
- **Oil & Gas** – Project Managed and designed multiple industrial solutions for oil & gas clients including two solutions that resulted in successful patent applications.
- **Flat Panel Displays** – Provided rapid design and production of multiple flat panel display products, including a Dolch Systems rack mounted computer, a flat panel display package for Boeing 777 and R&D team management for Telegen Display
- **Design/Analysis Tools** – Experienced with using design & analysis tools like Solidworks, ProE, AutoCAD, PCAD, OrCAD, IcePak, CFD, & Cosmos.