

DUNS NUMBER: 136915241

INCORPORATION DATE:
08/2003

CAGE CODE: 7LYR4

NAICS CODES:

213112
541330
541380
541713
541715

PSC CODES:

AJ12
AJ11
AG11
AG12

CONTACT INFORMATION:

Mark Marsalis

President & CEO

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PO BOX 2448

Cypress, TX 77410

Website:

www.marsalistechnic.com

CORE COMPETENCIES

Marsalis Technologies Inc. (MTI) is a small minority owned and operated science and engineering development firm based in Houston, Texas.

Mark Marsalis President/CEO and founder of MTI started the company in August of 2003 for purpose of research and development in the areas of robotics and aviation (with products pending release in late 2024 to early 2025). Mr. Marsalis has over 30 years of professional experience in the areas of science and engineering with degrees in both Applied Physics and Mathematics. He has extensive project management experience, accompanied with prototype development expertise in mechanical, control/instrumentation, electrical/electronic and civil engineering systems. The corporate structure of Marsalis Technologies Inc. allows Mr. Marsalis to fulfill his responsibilities as President and CEO while serving as Chief Technical Consultant.

As of January of 2015, MTI offers development support services to private and government sectors of business in the areas of Science, Engineering, Drafting & Design, and Product testing. Through the support of its leadership team, MTI has a broad range of experience in product development and implementation.

DIFFERENTIATORS

- **We're Flexible;** we adjust to your needs without compromising safety, quality, or schedule.
- **We speak many languages;** in the areas of:
 1. SCIENCE – Data Analysis (Predictive, Prescriptive, Descriptive, Inferential, Exploratory and Diagnostic)
 2. ENGINEERING – Research, Design Requirements, Feasibility, Conceptualization, Preliminary Design, Detailed Design (FEA, CFD, RCFA, & FMEA) and Production Planning
 3. DRAFTING and DESIGN – CAD Design and Drafting, GD&T, Tolerance Analysis, and Reverse Engineering
 4. PRODUCT TESTING – Factory Acceptance Testing (FAT), Extended Factory Acceptance Testing (EFAT), Site Receive Testing (SRT) and Site Integration Testing (SIT)
- **We take responsibility;** your needs are our needs, in principle and in writing.
- **We adapt;** we reinvent the wheel when necessary.
- **We grow;** we keep up and adopt the latest technology to offer the best service possible.

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CAPABILITY LEVEL

PRIME CONTRACTOR

Total Project Budget	up to 10 M
Total Project Duration	up to 5 years
Percentage of Scope	100%

SUB-CONTRACTOR

Total Project Budget	greater than 10 M
Total Project Duration	up to 10 years
Percentage of Scope	1% to 25%

MTI's Prime and Subcontractor capabilities can be modified to accommodate a variety of project scenarios. The information in this section is to be considered as general estimates of our capabilities.

EXPERIENCE LEVEL

SCIENCE

Data Analytics	10 yrs. detailed exp.
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ENGINEERING

Research & Development	30+ yrs. detailed exp.
Design Requirements	30+ yrs. detailed exp.
Feasibility Study	30+ yrs. detailed exp.
Conceptualization	30+ yrs. detailed exp.
Preliminary Design	30+ yrs. detailed exp.
Detailed Design (FEA, CFD, RCFA, & FMEA)	30+ yrs. detailed exp.
Production Planning	30+ yrs. detailed exp.

DRAFTING and DESIGN

CAD Design and Drafting (Solidworks)	30+ yrs. detailed exp.
Geometric Dimensioning and Tolerance (GD&T)	30+ yrs. detailed exp.
Tolerance Analysis	30+ yrs. detailed exp.
Reverse Engineering	20+ yrs. detailed exp.

PRODUCT TESTING

Factory Acceptance Testing (FAT)	30+ yrs. detailed exp.
Extended Factory Acceptance Testing (EFAT)	30+ yrs. detailed exp.
Site Receive Testing (SRT)	30+ yrs. detailed exp.
Site Integration Testing (SIT)	30+ yrs. detailed exp.

PROJECT EXPERIENCE

MARSALIS TECHNOLOGIES INC. EXPERIENCE

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- Green Palm Offshore LLC Topside High Integrity Pressure Protection System proposal
- Anadarko Petroleum Corporation (GOM) Shenandoah Field Development Project Conceptual Design Engineering Consultant
- Ocean Flo International LLC Subsea High Integrity Pressure Protection System (HIPPS)
- Confidential Clients Data Analysis for operational process improvement
- Confidential Clients Oil and Gas Development Front End Engineering Design (FEED) Studies
- Confidential Clients Layers of Protection Analysis (LOPA) for Oil and Gas Field Development
- Confidential Clients Low Voltage Communication System troubleshooting and Installation
- Confidential Clients HAZOP Study Facilitations
- Confidential Clients Safety Integrity Level (SIL) Studies Safety System Products
- Confidential Clients Finite Element Analysis (FEA) Supporting Product Failures
- Confidential Clients Failure Mode and Effects Analysis (FMEA) Studies
- Confidential Clients Failure Mode Effects and Criticality Analysis (FMECA) Studies
- Confidential Clients Finite Element Analysis (FEA) Supporting Product Design
- Confidential Clients Root Cause Failure Analysis (RCFA) for structural components used in test fixtures.
- Confidential Clients Computational Fluid Dynamics (CFD) Supporting Product Design
- Confidential Clients Data Analytics to Optimize Manufacturing Processes
- Confidential Clients Data Analytics to Support Machine Learning

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PRESIDENT & CEO PERSONAL EXPERIENCE

- Hess Corporation Gulf of Mexico (GOM) Stampede Project Field Development EPCI Bid Proposal Manager
- Anadarko Petroleum Corporation Mozambique Africa LNG Project EPCI Field Development Bid engineering management
- Exxon Mobil Corporation Gulf of Mexico (GOM) Julia Project Field Development engineering staff support
- Chevron Corporation Gulf of Mexico (GOM) Jack/St. Malo Project Field Development engineering staff support
- INPEX Corporation Australia Ichthys LNG Project Field Development engineering staff support
- Technical support and project management for the BP Gulf of Mexico (GOM) Atlantis Field Subsea Separator Well Containment System. Responsible for third party equipment design review, testing, and validation. Developed the Subsea Separator Well Containment System Factory Acceptance Test (FAT) procedure; and Subsea Separator Well Containment System Site Integration Test (SIT) procedure.
- Engineering review and quality evaluation for the BP Gulf of Mexico (GOM) Pompano Field platform Hydraulic Pumping Unit (HPU). Developed the Hydraulic Pumping Unit (HPU) Decision Support Package (DSP).
- Technical support and project management for Total E & P UK Limited Islay North Sea Field Topside and Subsea controls system. Responsible for third party equipment design review, testing, and validation. The equipment scope includes the subsea manifold structure and piping; subsea control modules; subsea communications routing module; and the High Integrity Pressure Protection System (HIPPS). Developed the technical review of project scope of work; and HIPPS technical assessment, testing, and validation report.
- Technical support and project management for the Helix Energy Solutions Group Topside MCS software upgrades on the Gulf of Mexico (GOM) Boris Field Floating Production Storage and Offloading (FPSO) Helix Produce 1. Responsible for monitoring of MCS software upgrades, repairs and testing.
- Technical support and project management for the Anadarko Petroleum Corporation Topside and Subsea controls system on the Gulf of Mexico (GOM) assets. The GOM assets covered under this scope work are Anadarko Calisto Field; Anadarko Caesar Tonga Field; Anadarko Independent Hub Field; and Anadarko Mawson Field. Responsible for third party equipment testing, validation & reliability.

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PRESIDENT & CEO PERSONAL EXPERIENCE CONTIUUED

- Developed the Subsea Control Systems technical manufacturing, testing and product design audit report; and Subsea Control Module (SCM) product line equipment design and reliability assessment Report for the Anadarko Petroleum Corporation.
- Technical support and project management for the Anadarko Petroleum Corporation proposed the Gulf of Mexico (GOM) Lucius Field. Responsible for monitoring third party offshore soil boring testing activities and result validation. Developed soil boring result validation report.
- Technical support and project management for the Noble Energy Corporation Gulf of Mexico (GOM) Raton South Field Subsea High Integrity Pressure Protection Systems (HIPPS) engineering proposal. Responsible for the HIPPS design engineering review with vendors. Developed the High Integrity Pressure Protection Systems (HIPPS) Function Design Specification (FDS); and High Integrity Pressure Protection Systems (HIPPS) Front End Engineering Design (FEED) study assessment.
- Gulf of Mexico (GOM) Marlin and Atlantis Topside and Subsea controls systems technical support and project management
- Gulf of Mexico (GOM) Atlantis Field Steel Flying Lead (SFL) Subsea Flushing and Abandonment procedure
- Gulf of Mexico (GOM) Marlin Electrical Flying Lead (EFL) replacement Decision Support Package (DSP)
- Gulf of Mexico (GOM) Marlin Variable Speed Drive (VSD) Building Decommissioning Decision Support Package (DSP); and Variable Speed Drive (VSD) Subsea Pump Decommissioning Decision Support Package (DSP).
- Technical support and project management for the BP Exploration & Production Inc. Vessel Fluid Transfer Emergency Flowline Release System. Responsible for third party equipment design review, testing, and validation.
- Developed the Vessel Fluid Transfer System Function Design Specification (FDS); and System Failure Mode, Effects and Criticality Analysis (FMECA) report with DNV for the BP Exploration & Production Inc.
- Total SE Jura Gas and Condensate Field engineering design team (North Sea)
- Cirrus Energy M1-A Gas Field engineering design team (Netherlands)

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- Chevron High Integrity Pressure Protection System (HIPPS) Proposal (Subsea Manifold, SCM, and Valves).
- Stewart & Stevenson 687kw Output Generator driven by 12 Cylinder Diesel Engine 800 hp product design and delivery
- Stewart & Stevenson 727kw Output Generator driven by 16 Cylinder Diesel Engine 1,000 hp product design and delivery
- Stewart & Stevenson 987kw Output Generator driven by 12 Cylinder Diesel Engine 1,500 hp product design and delivery
- Stewart & Stevenson 3,581kw Output Generator driven by 20 Cylinder Diesel engine 5,000 hp product design and delivery
- Stewart & Stevenson 2,865kw Output Generator driven by 16 Cylinder Diesel engine 4,000 hp product design and delivery
- Stewart & Stevenson 20 Cylinder EMD Diesel Engine 5,000 hp, and 3,581kw Output NOV Generator product design and delivery
- Pernco Horizontal Surface Pumping System product design and delivery
- Thyna Petroleum Services Horizontal Surface Pumping System product design and delivery
- Devon Energy Services Horizontal Surface Pumping System product design and delivery
- Anadarko Brown Cow Disposal Services Horizontal Surface Pumping System product design and delivery
- EnCana Oil and Gas Horizontal Surface Pumping System product design and delivery
- Berkine Sonatrach-Anadarko Horizontal Surface Pumping System product design and delivery
- Ram Energy Horizontal Surface Pumping System product design and delivery
- OSCA Inc. (Acquired by BJ Services Company May 2002) Half Indexing Mule Shoe Product Line design and delivery
- OSCA Inc. (Acquired by BJ Services Company May 2002) Oil Well Isolation Back check Valve Product Line design and delivery
- OSCA Inc. (Acquired by BJ Services Company May 2002) Recloseable Radial Valve Product Line design and delivery

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- OSCA Inc. (Acquired by BJ Services Company May 2002)
Recloseable Pressure Actuated Circulation Valve Product Line design and delivery
- ESPA Corp S-0056-027-2 East Water Treatment Plant Expansion and Improvements design team
- DWS-807 Asbestos Abatement for DWSD (Detroit Water and Sewerage Department) Facilities.
- DWS-813 Schoolcraft Station Reservoir Rehabilitation for Detroit Water and Sewage Dept. .
- DWS-820 Franklin Pumping Station Improvements Rehabilitation for Detroit Water and Sewage Dept.
- WW-529 Water Works Park Treatment Plant Screen House Rehabilitation for Detroit Water and Sewage Dept.
- Detroit Lions Domed Stadium, Relocation of 48" Intermediate Pressure Transmission Water Main for Detroit Water and Sewage Dept.
- CS-1171-3 Phosphoric Acid Feed System at Springwells Treatment Plant for Detroit Water and Sewage Dept.
- CS-1171-3 Phosphoric Acid Feed System at Water Works Park Treatment Plant for Detroit Water and Sewage Dept.
- DWS-713 Franklin Pumping Station Reservoir Rehabilitation for Detroit Water and Sewage Dept.
- DWS-714 Ford Road Reservoir Rehabilitation for Detroit Water and Sewage Dept.
- PC-682 Belle Isle Main Sewerage Pumping Station Improvements for Detroit Water and Sewage Dept.
- WW-516A Water Works Park Treatment Plant Boiler Replacement for Detroit Water and Sewage Dept.
- WW-520 Water Works Park Treatment Plant Rehabilitation of High Lift Transmission Piping for Detroit Water and Sewage Dept.
- WW-523A Water Works Park Treatment Plant Crib House Superstructure Rehabilitation for Detroit Water and Sewage Dept.
- WW-528 Water Works Park Treatment Plant Belle Isle Dike Rehabilitation for Detroit Water and Sewage Dept.
- WW-518 Water Works Park Treatment Plant Auxiliary Low Lift Pump Station Rehabilitation for Detroit Water and Sewage Dept.

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PRESIDENT & CEO PERSONAL EXPERIENCE CONTIUED

- WW-519B Water Works Park Treatment Plant Emergency Repair of Filter Building Roof
- WW-523B Water Works Park Treatment Plant Improvement and Rehabilitation of Crib House Substructure, Surge Basins, and Emergency Intake for Detroit Water and Sewage Dept.
- WW-524A Water Works Park Treatment Plant Belle Isle Intake Building Rehabilitation for Detroit Water and Sewage Dept.
- WW-525 Water Works Park Treatment Plant Belle Isle Bridge Rehabilitation for Detroit Water and Sewage Dept.