

Nasim Reza

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EXECUTIVE SUMMARY

Skilled Mechanical Engineer with over 5 years experience in the Oil & Gas industry with expertise in vessel and pipeline quality assurance/quality control. Focused on failure analysis, corrosion protection, maintenance planning, and reliability in Chemical plants. Relationship builder, excel at collaborating with clients, contractors, and manufacturers. Looking to advance my engineering, and project management expertise, and integrate them into innovative technical solutions.

CORE COMPETENCIES

- Mechanical Engineering
- Inspection and Testing
- Quality Assurance
- Problem Solving & Analytical Thinking
- Continuous Education
- Attention to Details
- Time & Task Management
- Mechanical Aptitude
- Leadership & Supervision
- Communication skills
- Engineering & System Design

PROFESSIONAL EXPERIENCE

RTCONSULTS PLLC, HOUSTON, TEXAS, USA, JULY 2018 TO PRESENT

Nonmetallic Engineer

- AMPP Senior Certified Coating Inspector (NACE CIP Level III), SSPC CCI level II (Concrete Coating Inspector) third-party inspector in oil and gas, water treatment facilities, and chemical refineries
- Perform coating inspection on vessels, pipes, and structural steel in the chloralkali industry.
- Perform inspection on the fabrication of fiber reinforced polymer (FRP) vessel and pipe at manufacturing facility.
- Carry-out coating/fireproof surveys on vessels, piping, structural steel, and offshore platforms.
- Review and update specifications.
- Update drawings (ISO, P&ID) using AutoCAD for clients.
- Perform failure analysis related to corrosion/chemical protection (coating, rubber liner, brick liner, and FRP)
- Enforce quality requirements using Non-Conformance Reports (NCR), Destructive testing (DT), nondestructive testing (NDT), and coordination with quality control to ensure strict material and procedure compliance with application codes and standards (ASME, ASTM, NACE, SSPC, CWI)
- Communicate engineering and product data sheet specifications with contractors to ensure client standards and expectations are realized.
- Perform laboratory evaluation/testing (DT, NDT) on industrial coatings and fiber reinforced polymer (FRP) related to corrosion, chemical protection, and material selection in accordance to NACE/SSPC/ASME/ASTM.

BOWER & PUFFER DESIGN AND DÉCOR, ABU DHABI, UNITED ARAB EMIRATES, JULY 2011 TO AUGUST 2015

OPERATIONS MANAGER

- Orchestrated the smooth day-to-day operations of the company.
- Developed packages for clients to address their project and scheduling needs.
- Fostered working relationships with clients, organizing meetings and project discussions.
- Supervised the execution of all projects related to company teams.
- Procured all necessary supplies and other requirements to meet project goals.
- Maintained fiscal responsibility for the company, including all aspects of operations, including payroll, project financing, and budget management.

EDUCATION

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING TECHNOLOGY, 2020 - *University of Houston, Houston, TX*
ABET Accredited – Engineering Technology Accreditation Commission

NATIONAL DIPLOMA CERTIFICATE IN AEROSPACE ENGINEERING, 2011 -*Emirates Aviation College, Dubai, United Arab Emirates*

CERTIFICATIONS

AMPP Senior Certified Coating Inspector (NACE CIP level III); Cert# 78279

AMPP (SSPC) Concrete Coating Inspector CCI level II; Cert #1313195

API 510 Pressure Vessel (In-process)

TWIC (Transportation Worker Identification Credential) Expires Jul 2023

PROJECTS

Failure analysis: 2021

- Occidental Chemical plants: FRP piping system.
- Occidental Chemical plants: Brick lining failure.
- Occidental Chemical plants: Insulative coating failure.
- Sabic Burkville Alabama: FRP piping systems.

Tank Linings: 2019-2023

- Occidental Chemical plants: QA/QC of the brick lining application process for chlorine drying tower
- Occidental Chemical plants: Monitor the rubber lining process for HCL neutralization tank.
- Motiva Port Arthur Texas: FRP storage tank evaluation.

Coating Evaluation: 2018-2023

- Noble Energy/ Occidental/ Anadarko Petroleum Corporation/ Sabic Burkville Alabama: Perform laboratory accelerated testing on coating systems to evaluate the performance for offshore platforms.

Coating/ Fireproofing Survey: 2019-2023

- Occidental Chemical plants (Multiple facilities): Fireproofing survey of the entire facility.
- Hess Corporation: Coating survey for offshore platform.
- Chevron Corporation: Coating survey for offshore platform.
- Northeast Water Purification Plant (Houston): Concrete coating on containments/ pipe coating QA inspection.

Academic Projects- Exoskeleton: Jan - Dec 2020

- Designed and 3D printed an exoskeleton that would attach to the upper and lower arm to provide motion for stroke patients. All physical parts were 3D printed. Arduino chip was used to program the speed and movement control and limitation for the servo motors.

Academic Projects- Mach 1 Project: 2010

- Simulated a turbine engine by using car parts such as turbo, oil cooler, distributor, radiator, oil pump, and designed a combustion chamber to fit the project design.

Internships:

- **Emirates Airline:** Test Cell Intern. (February 2010 to July 2010)
 - Assisted engineers with assembly and disassembly of aircraft engine modules. Observed testing procedures.
- **Emirates Airline:** Line Maintenance Intern. (July 2009 to August 2009)
 - Assisted engineers with daily/ weekly checks, aircraft walk around, fueling, entertainment system checks.

ADDITIONAL INFORMATION

Languages: English, Arabic, Farsi

Technical Proficiencies: OSX, Windows; Microsoft Office Suite, Numbers, Pages, Chrome, PTC Creo; AutoCAD, Mathcad, C++(basic).