ISAACH Yerra PhD
Process Design & Safety Engineer

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PROFILE

Enthusiastic and ambitious Chemical Engineer with working experience of 5 years' in R&D and 4+ years' in LNG, petrochemical projects in the EPC sector of the Oil and Gas industry.

SUMMARY

- Designed and developed turnkey LNG plants for Lique Tech and modular GTL plants for DeWalch.

- Strong knowledge of process design, process simulation, process safety, unit operations, heat and mass balance, reaction engineering, and thermodynamics.

- Experienced in process technologies like Amine sweetening, Glycol dehydration, SynGas reforming, LNG, GTL, SNG, PSA, Merax, Hydrotreating, Hydrogenation, and lube oil to Diesel.

- Hands on experience with PFDs, P&IDs, FEED, HAZOP, PSM, PHA, LOPA, and PLC.

- Expert in process simulation tools like Aspen plus, Aspen DMC, Aspen IQ, HYSYS, Pro/II, UniSim, DynSim, ProMax, SimSci, CHEMCAD, VMGSim, HTRI, Aspen-EDR, CCTHERM, HEXTRAN, Control Station, CFD, FLUENT, and CHEMKIN.

- Advanced knowledge of various engineering technologies, codes, and standards like API, ASME, ASTM, TEMA, NFPA, CFR, and NACE.

- Team player in working with different teams at any challenging environment.

- Proficient in research and development of new engineering processes and technologies.
  Excellent written and verbal communication skills with a perspective to excel in every task.

- Acquainted with the scientific advanced characterization techniques like UY-Vis, GC-FID, HPLC, ELISA, XRD, SEM-EDX, and XRF.

- Familiar with mechanical design software like COMPRESS, SolidWorx, AutoCAD, and CADWorx.

- Professional Engineer (P.E.) in the state of Texas.

EDUCATION

Doctor of Philosophy (PhD)
Lamar University – TX, US	Dec 2014
Chemical Engineering	3.8 GPA

Title: Microwave assisted formation of magnetic carbon nanostructures for wastewater treatment applications.

Master of Engineering (MTech)
NIT Trichy – India	Jun 2009
Chemical Engineering	3.7 GPA

Title: Modeling, simulation and optimization of UOP CCR Platforming process.

Bachelor of Technology (BTech)
Nagarjuna University – India	Jul 2007
Chemical Engineering	3.5 GPA

Advanced coursework in Chemical Engineering

WORK HISTORY

Sep 2008 — Project Intern, UOP Platforming Process
Honeywell, India

Sep 2009 — Assistant Professor, Chemical Engineering Dept.
SIT Tumkur, India

Aug 2011 — Research Assistant
Lamar University, Beaumont, Texas

Aug 2014 — Process Engineer
JGC America Inc., Houston, Texas

Sep 2014 — 1,000 KTA Ethane Export Project (Pre-FEED)
Sunoco Logistics, Nederland, Texas

Jan 2015 — 2.1 MTPA LNG Project (Re-FEED)
Mozambique Area 1, Anadarko

Oct 2015 — 1,000 KTA Ethylene Project (FEED)
PTT Global Chemical, Ohio

Mar 2016 — 6.0 MTPA LNG Project (FEED)
Jordan Cove LNG, Coos Bay, Oregon

Oct 2016 — 2.1 MTPA LNG Project (FEED)
Woodfibre LNG, Squamish, Canada

2.1 MTPA LNG Project (Pre-FEED)
Sakhalin, RFE-1, Russia