

# UDUAK-JOE NTUK

## EDUCATION

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<b>UNIVERSITY OF SOUTHERN CALIFORNIA</b> <i>Master of Science, Petroleum Engineering</i>	Los Angeles, CA 2011
<b>CALIFORNIA STATE UNIVERSITY, LONG BEACH</b> <i>Bachelor of Science, Chemical Engineering</i>	Long Beach, CA 2006
<b>LONG BEACH CITY COLLEGE</b> <i>Associate of Arts, Liberal Arts</i>	Long Beach, CA 1999

## EXPERIENCE

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**CALIFORNIA GEOLOGIC ENERGY MANAGEMENT DIVISION** Sacramento, CA  
*State Oil & Gas Supervisor* 2019 – present

- Chief Regulatory Officer for the State of California responsible for the regulations and permit issuance at the state's oil & natural gas fields, underground natural gas storage facilities, and geothermal energy operations.
- Direct a statewide regulatory, technical, and field operations organization in five regional offices, that is designed to emphasize the safe development of oil and natural gas conservation and advance environmental equity in Californian.
- Draft and implement state policies to protect public health and safety, environmental quality, and the reduction and mitigation of greenhouse gas emissions associated with the development of hydrocarbon and geothermal resources in a manner that advances the state's clean energy goals.
- Serve as the Governor's representative to the Interstate Oil and Gas Compact Commission, national board of the Groundwater Protection Council, and as a governing board member of the Baldwin Hills Conservancy.

**CITY OF LOS ANGELES: PUBLIC WORKS DEPARTMENT** Los Angeles, CA  
*Director of Petroleum Administration* 2016 – 2019

- Led the Office of Petroleum and Natural Gas Administration and Safety, responsible for examining and reporting on all matters related to the exploration and production of petroleum and gas storage facilities in the City of Los Angeles.
- Managed the inspections and investigations of safe operations and compliance of oil and gas drill sites and pipelines
- Provided local, state and federal energy policy advice to the Mayor, City Council, and the Board of Public Works.
- Represented the City at news conferences, events, and media inquiries concerning Oil and Gas matters.
- Administrated the City's pipeline utility franchise agreements, including such items as negotiations, monitoring, risk management, audits, bonding, insurance requirements and reporting on current and renewal of franchise agreements.
- Prepared reports for various citywide projects, including; Pipeline Safety & Compliance Analysis, Marine Oil Terminals, Municipal Codes, Environmental Impact Reports, Gas Storage Fields, and Oil & Gas Health Reports.

**CITY OF LONG BEACH: GAS AND OIL DEPARTMENT** Long Beach, CA  
*Petroleum Engineering Associate* 2011 – 2016

- Responsible for performing complex petroleum engineering work pertaining to new well drilling, oil and gas production operations, subsidence control, and other waterflooding related work at the Wilmington Field.
- Coordinate inspects and oversight of all oil drilling and production operations conducted by the City and its contractors; including the bidding operations on all phases of construction work, directing the oil field equipment control programs; coordinating drilling, production, and water injection operations of the City and its contractors; oil spill clean-up operations within Tidelands zone; & gathering, analyzing and preparing operating data reports and estimates for production operations and engineering evaluations.
- Bureau Liaison for the Gerald Desmond Bridge Replacement Project, Port of Long Beach Middle Harbor Project, Occidental Petroleum Facilities Operations, and Fault Block/Long Beach Unit Working Interest Owners.
- Prepare and draft various citywide reports, including; FY Oil Field Abandonment Liability Report, WIO Monthly Status Letters, Weekly Crude Oil Chart, and Annual Electrical/Pipeline Replacement Reports to the California SLC.
- Certified Long Beach THUMS Oil Island Tour Guide responsible for educational public tours for guests on the history of the oil islands, engineering operations, and the unique marine landscape architecture of the four islands.
- Completed training on Customer Service, Project Management Fundamentals, and Horizontal Well Technology.

## **CHEVRON: NORTH AMERICAN EXPLORATION & PRODUCTION**

Bakersfield, CA

### ***Reservoir Engineer***

2009 – 2011

- Responsible for 240,000 Bbl/day Waterflood Injection into the Belridge Diatomite at the Lost Hills Field.
- Reservoir Management responsibilities include: Waterflood pattern surveillance, subsidence mitigation, injection optimization, vertical conformance improvement, PID reserves review, water injector remediation programs, water injection forecast scorecard, and monthly production performance forecasts to Crude Supply and Trading Division.
- Led weekly Pattern Reviews in concert with integrated team of geoscientists, production/facility engineers, and field operations to optimize water injection distribution across the field with various proprietary exception reporting tools.
- Organized cross-functional Green House Gas Ingenuity Session with Nobel Laureate, Susann Nordrum, to generate business solutions to comply with both the EPA and California's Climate Change Law (AB 32) regulations which resulted in a new business unit GHG shaping curve as featured in our 2009 Corporate Social Responsibility Report.
- Facilitated the Lean Sigma Dual String Injector Improvement Project that repaired 109 communicating injection packers to improve lower zone injectivity, production and reserve recovery to retain \$2.3 million in asset value.
- Coordinator between the University of Southern California and Chevron's Research and Development Division, leading a sixteen-pattern water injection rate field pilot of a new prototype Water Injection Optimization Tool.
- Completed training in Decision Analysis, Financial Reporting, Subsurface Forecasting, and Lean Sigma.

### ***Production Engineer***

2006 – 2008

- Operational Engineer responsible for 8,000 BOPD of production from over 2,000 wells at the Kern River Field.
- Key job functions include AFE generation for remedial sidetracks and workovers, production monitoring, heat management, horizontal well completion programs, designing rod pump artificial lift system, slotted liner and perforation recompletion jobs, replacement well selection, injector reconfigurations, and reserve calculations.
- Hydraulic Fracturing Lean Sigma Project Team Facilitator for historical regression analysis on 200 infill wells to determine critical variables for remedial production enhancement of \$8.5 million COPQ opportunity.
- Evaluated the operating expenses and production volumes of a 40 well, 17-acre lease to determine a net present value of \$28 million for a potential royalty holder buy out on a prospective property acquisition.
- Safely led a cross functional team in conducting a lean sigma cyclic steam injection pilot program on 230 legacy wells to produce a 2.5 bopd average incremental production increase resulting in \$1.3 MM in increased profits.
- Compiled 15,000 days of pampa and tubing pump runtime data on 622 pumps in 120 wells from three different databases to determine the pump selection criteria in SOP's needed to be adjusted for optimal performance.
- Petroskills training in Drilling, Completions, Production Engineering Practices, and Sand Control Techniques.

## **CSULB: MATH ENGINEERING SCIENCE ACHIEVEMENT (MESA)**

Long Beach, CA

### ***Academic Advisor – College of Engineering***

2003 – 2005

- Advised several hundred engineering students in undergraduate academic curriculums, course scheduling, career guidance, peer mentoring, resume preparation, mock interviews, and graduate school preparation.
- Coordinated the "Freshman Fridays" Program to assist freshman engineering students with transition to college, career exploration, academic skill development, and retention within the College of Engineering.
- Organized two corporate mixers with over 40 representatives from various companies to highlight student achievement, underrepresented student organization's needs, and funding opportunities within MESA.
- Trained in Diversity & Inclusion, PeopleSoft, OASIS, SAP, and CSU academic guidance protocols.

## **SKILLS**

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- Climate Change Policy: Economics and Politics Certificate, Harvard Kennedy School of Government
- Global Logistics Specialist Certificate from the Center for International Trade and Transportation
- Project Management, Lean Sigma, Probabilistic Forecasting, Decision Analysis, and Public Speaking.
- Digital fluency in Crystal Ball, SPC XL, PEEP, DSS, Rodstar, Minitab, Adobe Acrobat, and Microsoft Office.

## **HONORS AND ACTIVITIES**

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- Adjunct Faculty, California State University Long Beach – Chemical Engineering Department (2016-2018)
- 2018 C40 Global Air Quality Workshop – Bangalore, India
- Vice Chair, Pacific Gateway Workforce Investment Board Youth Council (2011-2015)
- Advisory Board Member, USC Center for Engineering Diversity (2006-2016)
- 2016 African American Board Leadership Institute, Board Governance Certificate
- 2012 U.S. Federal Bureau of Investigation (FBI) – Los Angeles Citizen Academy Graduate
- 2007 National Alumni Leadership Award, National Society of Black Engineers
- 1996 Eagle Scout, Boy Scouts of America