

John Le Nguyen, EIT

(832)-285-7460 | nguyenjohn072@gmail.com | 770 N. Eldridge Pkwy. Apt. 329 Houston, TX 77079

EDUCATION

University of Houston, Cullen College of Engineering, Houston, TX
Bachelor of Science in Mechanical Engineering

May 2019

EXPERIENCE

Project Pipe Stress Engineer

Fluor Federal Petroleum Operations, Houston, Texas

March 2020 - Oct 2020

- Supported the Department of Energy's Strategic Petroleum Reserve "Life Expansion II" project in pipe stress related tasks
- Performed pipe stress analysis in accordance with ASME B31.3 and ASME B31.4 via AutoPIPE
- Analyzed pump nozzle loads to ensure API 610 and vendor allowables are satisfied
- Analyzed shell and tube heat exchanger nozzle loads per WRC 107
- Examined complex 3D models of process piping plants in SmartPlant Review
- Analyzed flange stresses in accordance with ASME Section VIII Div. 1
- Inspected SmartPlant 3D model, isometric drawings, and P&IDs for design consistency
- Prepared final stress reports for completed calculations

Associate Design Engineer I

Fluor Corporation, Sugar Land, Texas

July 2019 - Mar 2020

- Attended Fluor's six-week training course for Pipe Stress Design & Analysis
- Reviewed ASME B31.3 code requirements and pipe stress related requirements
- Developed problem solving skills utilizing various software/methods (AutoPIPE, SmartPlant Review, WRC 107, Flange Design, Local Stress, and other calculations)
- Analyzed different types of equipment including pipe stress considerations and allowable nozzle loads (Pumps, compressors, steam turbines, fire heaters, air cooled exchangers, shell & tube heat exchangers, fractionators, reactors)
- Analyzed Canadian PDH process piping for Acoustic Induced Vibration concerns

Gas Dynamics Intern

Crystaphase, Houston, Texas

May 2018 - Aug 2018

- Designed and fabricated gas vessel to simulate Sulfur Recovery Units (SRU) in oil refineries
- Modeled and implemented smoke feeding mechanism for simulated SRU
- Drafted smoke distribution housing using CAD
- Assembled distribution housing by solvent-welding plexiglass
- Conducted gas distribution tests on CatTraps, ICBs, and other various top beds
- Presented correlation between PPI and gas distribution to both the technical team and sales team
- Laid groundwork for a new product that allows for \$10 million growth in purchase orders from current clients alone

SKILLS

Applications: AutoPIPE, SmartPlant Review, SolidWorks, COMSOL, Creo, AutoCAD, MS Office

Programming: MATLAB