

# John Le Nguyen, EIT

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## 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