

## Professional Experience

### Mechanical Design Engineer, Department Mentor – New Product Development

Intralox, Harahan, LA, January 2023 – Present

- Mentor and coach New Products Engineers from two different new products teams
- Develop detailed project specifications to be used in product design
- Responsible project success within the two teams
- Work on companywide critical success initiatives

### Mechanical Design Engineer, Team Lead – New Product Development

Intralox, Harahan, LA, September 2016 – January 2023

- Managed and mentor Mechanical, Electrical, and Software Engineers as well as technicians
- Created custom test equipment that is used for testing and verify conveyor belt design
- Used SolidWorks to design custom parts and accompanying manufacturing drawings
- Engaged with internal and external customers to develop detailed project specifications
- Supported field inspections and installations of commercial conveyor systems
- Developed new test methods and protocols to collect consistent and meaningful data

### Mechanical Design Contractor – Multi-Projects

Self-employed, Gretna, LA, December 2016 – Present

- Work with both individuals and companies to produce production equipment, prototypes, tradeshow displays, and various other types of custom design/engineering work
- Maintain working relationships with multiple machine shops to ensure quality parts are produced as well as answer any questions that may arise during manufacturing

### Mechanical Design Engineer – Oil Well Inspection Cameras

Downhole Vision, Hammond, LA, September 2015 – September 2016

- Designed pressure vessels with camera and lighting windows that were designed to withstand up to 15,000 psi (103 MPa) as well as temperatures ranging to 275F (135C)
- Utilized SolidWorks to create the 3D CAD custom components and their drawings
- Collaborated with manufacturing to design tooling to make cameras easier to assemble
- Worked with parts vendors and machine shops to ensure quality parts were delivered

### Mechanical Engineer – Calypso OBC System

ION Geophysical, Harahan, LA, June 2012 – August 2015

- Worked on R&D projects associated with the *Calypso* Ocean Bottom Cable (OBC) system
- Helped manufacturing and operations with new product startup
- Engaged in engineering field support worldwide
- Composed engineering test and wrote detailed test reports
- Produced detailed 3D CAD parts and 2D drawings using ProE Creo
- Wrote assembly procedures and supporting documents
- Created comprehensive Bill of Materials (BOMs) and production assembly drawings

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## Professional Skills

- Experienced managing and mentoring skilled engineers and technicians
- Mastery of the following software: SolidWorks, Mathcad, and Microsoft Office suite
- Familiar with GD&T uses and application
- Practiced at delivering complex information to audiences with diverse technical backgrounds
- Skilled at troubleshooting complex mechanical, electrical, and pneumatic systems
- Knowledge of modern manufacturing methods as well as QC inspection methods

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## Professional License

Professional Engineer (LAPELS License # 0043105)