

EDUCATION

B. Sc.
Mechanical Engineering
University of Houston
2017

A. Sc.
Engineering
Houston CC
2013

EXPERTISE

Technical Writing
Technical Drawing
AutoCAD
Autodesk
Inventor
MATLAB
Data Analysis
Wellview

LANGUAGES

Fluent in English, Spanish

PROFESSIONAL HIGHLIGHTS

Proactive Mechanical Engineer graduated from the University of Houston in May 2017. During the course of my academic career, I also managed to learn valuable professional skills such as computer-aided design, leadership, and communicating with customers. In both my academic and professional life, I consistently strive to be diligent and hard working with a constant desire to learn with utmost attention to detail.

PROFESSIONAL EXPERIENCE

CDEUS, HOUSTON, TX (2017–CURRENT) CONSULTING ENGINEER-IN-TRAINING

- Participated in the preparation of supporting documentation for asset divestiture in a private company Oil and Gas operator: Review Wellbore mechanical diagrams, well tests, production data, workover histories, and well files for more than 50 wells.
- Highly involved with a team to evaluate and validate potential opportunities for production optimization in Northern Michigan Antrim Gas production field
- Prepared and validated CPF (Central Production Facilities) map location, flowing wells and status in Northern Michigan oil and gas fields
- Supported company projects through their life cycles; including integrated project proposal generation, project tracking metrics generation, cost-value estimations for funds requisition, and letter of intent drafting support

UNIVERSITY OF HOUSTON, HOUSTON, TX (2016–2017) MECHANICAL ENGINEERING CAPSTONE

- Designed, laser cut and assembled an automated filtration device, which utilizes ferrofluids technology to remove oil particles suspended in a flowing water stream running through a pipe
- Utilized Autodesk utilities such as AutoCAD and Inventor primarily to design and render representations of the actual device to accurately measure and cut the materials, as well as revise flaws in design and create different variants
- Organized and coordinated the team into following deadlines, changes in schedule as well as ordering materials and helping in developing cost budgets with other team members

UNIVERSITY OF HOUSTON, SEATTLE, WA (2016) EXTREME ENGINEERING COMPETITION

- *“Learning Cube” by PowerRED* - Designed, engineered and presented a foldable utility cart capable of being transported by hand, or hauled by a bicycle while being subject to different limitations and constraints

LUMEN MOTORS, HOUSTON, TX (2016) CHASSIS AND PROTOTYPING ENGINEERING INTERN

- Developed the first operating cost-efficient, monocoque chassis prototype design in Autodesk Inventor to be used for testing and basis for production of the Project Starline vehicle.
- Conducted various analytical studies including R&D, design, revisions, features for value addition, and compatibility with other parts of the vehicle

ORGANIZATIONS AND VOLUNTEERING EXPERIENCE

Society of Hispanic Professional Engineers – University of Houston

Recruiter | New Member Committee

- Recruited over 100 members through several events during the summer for an increase in 92% overall member enrollment

Committee Leader | STEM Engagement Outreach Committee

- Directed groups of high school students in designing, constructing, and testing several science projects to increase STEM awareness

Curriculum Chair | 2016 RLDC Planning

- Devised a program track for more than 100 SHPE Jr members to encourage involvement in STEM and engaging them to solve real world engineering problems

SKILLS

Soft Skills: Technical Writing, Technical Drawing, Public Speaking

Design Software: Autodesk AutoCAD, Inventor 3D, PTC Creo 3.0, SOLIDWORKS

Computer Skills: MATLAB, COMSOL, C++, Microsoft Word, Excel, PowerPoint, Wellview