

Abraham Perez Reyes, EIT

1605D Coronado Hills Dr 78752 | Austin, TX 78752 | (361) 455-2876 | abrahampre27@gmail.com

PROFESSIONAL SUMMARY

Mechanical EIT experienced in project coordination in the semiconductor industry, piping design and knowledgeable in computer-aided design software.

EDUCATION

Bachelor of Science - Mechanical Engineering Texas A&M University – Kingsville Dec 2013

CERTIFICATIONS

ASHRAE's HVAC Design: Level I – Essentials: Tools for a High Performance, Building Designers Sept 2017

FE Examination Passed. Jan 2018

University of Houston-Downtown: Online Autodesk REVIT MEP 2018: The Complete Guide Dec 2018

The University of Texas at Austin- Coding Bootcamp. Expected Grad Dec 2021

PROFESSIONAL EXPERIENCE

Facilities Line Planning Coordinator, Magnum Engineering- Contractor with SAMSUNG Nov 2016 – Present

- Evaluate the field conditions and assess the infrastructure needed for installation of production tools, fab expansion projects, and tool studies
- Review tool hook-up packages and address issues regarding equipment layout and installation by coordinating with contractors and Samsung employees from several departments involved in the installation
- Create tool layouts on AutoCAD to be utilized on tool hook-up packages
- Create weekly reports for the head of facilities and infrastructure department
- Responsible for maintaining and updating master layouts of the Samsung plant including production tools, support equipment, architecture, exhaust and piping drawings
- Respond to critical fab events that require containment speed and quick resolution to ensure minimal impact to product. Generate reports (such as 8D) illustrating root cause of incidents, corrective actions and future preventative measures
- Coordinate with AMHS department regarding the positioning of load ports for new tools
- Work along with AMHS department in order to define the location of future tools such as stockers and HIDs
- Evaluate available space within the plant for the installation of process equipment while taking into account the limited space in the building and equipment electric, chemical and mechanical requirements
- Verify that production equipment and tools are installed accurately according to construction packages and according to the deadline
- Collaborate with senior engineers in the design of exhaust duct and piping for the creation of in-house infrastructure construction packages following SAMSUNG specifications
- Review construction packages provided by third party engineering and architecture firms. Verify field conditions previous to project and after. Communicate with departments involved if issues are found. Red line and update drawings after project is completed
- Calculate pressure drops in existing ducts and look for possible solutions to improve their performance.
- Follow the installation process of exhaust duct and respond to issues that come up on the field. Follow up to RFIs submitted by contractors and come up with solutions by coordinating with all the departments involved in project
- Use KTA software for tool hook-up design packages

Piping Design Engineer, Govind Development, LLC Feb 2015 – Nov 2016

- Assisted engineers and senior designers with multiple projects for different clients, while consistently meeting deadlines, providing adequate designs and working within the given budget
- Designed piping systems in 2D and 3D environments, in strict compliance with current codes and standards established by clients using the latest version of AutoCAD software
- Inspected, field verified and created revisions of piping isometrics and P&IDS drawings following clients documentation control and privacy policies
- Reviewed piping construction documents for technical accuracy before delivering to clients
- Provided construction support to other contractors regarding piping, mechanical and architecture issues found during ongoing projects
- Established good working relationships and communication with area leads, department managers and clients
- Improved the company's bottom line by quickly learning and taking tasks done by senior designers

Leak Detection and Repair (LDAR) Technician, Miller Environmental Services

Feb 2014 – Feb 2015

- Performed EPA method 21 leak inspections to detect fugitive emission in production equipment within the refinery units
- Examined cooling towers, filter canisters, and sump pumps on a monthly and quarterly basis in order to measure the volatile air pollutants' ppm
- Monitored production units in the refinery and created repair orders for leaks found following NESHAP regulations
- Instructed and trained other technicians on identification of valves, pipelines, and flanges, as well as safety and leak detection procedures in the refinery

Senior Design Student, Texas Space Grant Consortium – Design Challenge

2013 – 2014

- Designed an anchoring system for a drill to be used on Mars utilizing Solid Works and AutoCAD software
- Manufactured a working prototype of an anchoring system for the Mars Drill, by the methods of 3D printing and using manual heavy duty manufacturing machines

SKILLS

- | | | |
|--------------------|-----------------------------|---------------------------|
| • AutoCAD | • Solid Works | • Microsoft Office: Word, |
| • AutoCAD Plant 3D | • KTA | Excel, PowerPoint |
| • Pipe Flo Pro | • MATLAB | |
| • Revit | • Bilingual: Spanish | |

HONORS & ACTIVITIES

- Texas Space Grant Consortium Scholarship
- Texas Space Grant Consortium Design Challenge Awards: **1st Place**