

Wilbur Acharya, EIT

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EDUCATION

The University of New Orleans

Cumulative GPA: **3.9/4.0**

Bachelor of Science in Mechanical Engineering

Graduation Date: **May 2023**

Minors in Software Engineering and Mathematics

Professional Engineer (P.E) – Thermal and Fluids Systems

Passed; Pending Experience

Summa Cum Laude; Homer-Hitt Scholarship (Full-Ride); ASME Petroleum Scholarship; Tau-Beta Pi Scholarship

EXPERIENCE

Mechanical Maintenance Engineer

May 2024 – Present

Bayer U.S

Luling, LA

- Coordinate with planners and technicians to formulate and implement job plans for daily maintenance tasks
- Uphold mechanical integrity standards by supervising inspections of FRP and glass lined vessels, relief devices, centrifuges, and other critical equipment, ensuring compliance with industry regulations
- Collaborate with cross-functional teams and vendors to drive new projects such as coating on chutes, thumper installation, and piping upgrades, while prioritizing safety and operational excellence

Maintenance and Reliability Systems Engineer

June 2023 – May 2024

Bayer U.S

Luling, LA

- Developed and implemented a comprehensive pump report tracking bad actor pumps over the past 2 years
- Initiated preventive maintenance strategies for cost savings by addressing issues and minimizing pump failures
- Led a comprehensive on-site diesel spill investigation, including development of Job Task Analysis (JTA), proposing a new EFD, and overseeing equipment replacement activities on fuel tanks
- Deployed actionable, data-driven KPIs utilizing SAP, Google Big Query and Power BI, thereby delivering real time insights for tracking and measuring maintenance activities and work scheduling

Mechanical Engineering Intern

May 2022 – Aug. 2022

Bayer U.S

Luling, LA

- Led operator rounds automation project for transitioning from paper-based checklists to electronic tablets for equipment health tracking of centrifuge equipment worth \$6million
- Analyzed P&IDs of 5 production units for identifying process safety materials per EPA compliance guidelines
- Automated merging and migrating of engineering spec sheets using Python, reducing 100s of manual hours

Mechanical Engineering Co-op

June 2021 – Dec. 2021

Bayer U.S

Luling, LA

- Created global training materials and trained 5 site operators in using Asset Performance Management software
- Assisted engineers and vibration technicians for controller setup and installation of 105 AMS vibration monitors
- Supported CAD drawings migration to Autodesk Vault; inspected specifications and multi-million project bids

PROJECT

Paper Dryer Siphons

- Designed an experimental prototype of paper dryer to study flashing phenomena and air-water flow inside siphons
- Optimized the experiment and achieved 50% reduced energy consumption using compressed air instead of steam
- Acknowledged in the paper, “**Experimental Study of Void Fraction Effect on Flow Continuity in A Siphon**” published by the American Society of Thermal and Fluids Engineers (ASTFE)

SKILLS

- **Engineering:** SolidWorks, Fusion 360, AutoCAD, Autodesk, MotionGen, GE APM, AMS Machine Works
- **Languages:** Java, Python, C++, JavaScript, HTML, CSS, Vue.js
- **Technical:** 3-D Printing, Laser-Cutting, Band Saw, Lathe, Wire Brush, Angle Grinder, Drill Press