
HENDRY WIDYANTO

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WORK HISTORY

Product Performance Engineer, Abbott Laboratories – Plymouth, MN

August 2021 – Present

- Investigated and evaluated complaints of returned and non-returned medical devices to determine the root cause of the reported problem by performing non-destructive and destructive testing, reviewing the Device History Records, reviewing similar incidents, and coordinating product testing/analysis
- Prepared technical reports of evaluation findings and recorded the findings into the Quality Management System (QMS)
- Determined and identified if the reported problem of medical devices is related to product quality issue with respect to manufacture, design, or labeling
- Initiated a Corrective and Preventive Actions (CAPA) when a product quality issue is found
- Improved upon existing work instruction of failure analysis methodologies, and reviewed Failure Mode & Effect Analysis (FMEA) for risk assessment

Test Engineer, Ecowater Systems LLC – Woodbury, MN

September 2019 – August 2020

- Designed and assembled automation stand to test the viability of new brine valve prototype for water softener and the lifespan of MgO block to produce alkaline water from the Reverse Osmosis water
- Installed and programmed PLCs to control the system and collect data for analysis
- Operated and maintained pilot-scale equipment to analyze resin capacity and optimized the resin in water softener to reduce production cost and increase the efficiency of ion exchange
- Developed Process Flow Diagram and improved manuals for existing and new automation system
- Designed and assembled automation stand that includes heat exchanger and pump sizing to test the strength of salt tank for water softener at high temperature

Research and Development Intern, PT. Inkote Indonesia – Bekasi, Indonesia

June 2019 – August 2019

- Formulated composition of industrial coating according to the specification given by the clients
- Reduced cost production by evaluating substitute raw material such as resin, pigment, and additive from suppliers
- Demonstrated technique to analyze the coating such as color matching, testing pigment color strength, checking viscosity, measuring solid content of paint, and paint spray application

Upward Bound Instructor, Peninsula College – Port Angeles, WA

September 2016 – June 2017

- One of the instructors of a federally funded college preparatory program that aids low-income and first-generation college-bound high school students
- Developed skills needed for post-secondary education and helped its graduates to enter and stay in college working toward a four-year degree

EDUCATION

Bachelor of Chemical Engineering & Bachelor of Chemistry – GPA: 3.48/4.00

September 2017 – May 2021

University of Minnesota Twin Cities – Minneapolis, MN

SKILLS

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| • Wet-chemical sample prep & analysis | • Programming (Python, MatLab, Mathematica & VBA) |
| • Operation of pilot-scale equipment (distillation, absorption, heat exchanger, and ion exchange) | • Install and basic programming of PLCs |
| • Quality Management Systems | • Root cause analysis |
| • SolidWorks | • Aspen Plus |
| | • MS Office (Excel, Access, Word, and PowerPoint) |