
HENDRY WIDYANTO

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WORK HISTORY

Associate Engineer – Product Performance Group, Abbott Laboratories – Temecula, CA August 2021 – Present

- Build a website for internal use to publish custom report. Technology used: backend (Python, FastAPI), frontend (React, HTML, JS, CSS), database (Salesforce, Azure SQL), and cloud service (Azure Functions, Azure App Service, Entra ID)
- Create an application to receive a complaint from the client and sales team using PowerApps as the user interface and Python (with FastAPI) as the backend. Then, validate the data before transferring the data to Salesforce
- Build dashboard for the group using Power Platform (Power BI and Power Automate)
- Identify, analyze, investigate, monitor, and document patterns/trends in post marketing surveillance data as part of the CAPA system
- Analyze and investigate product complaints from the field as part of post market surveillance requirements
- Analyze returned products to address issue and to ensure a high level of product quality
- Ensure that information and insight gained from the investigations and corrective actions are fed back to the R&D and marketing organizations as part of the risk management and design input systems

Engineering Co-op, Ecowater Systems LLC – Woodbury, MN September 2019 – August 2020

- Design and assemble 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
- Install and program PLCs to control the system and collect data for analysis
- Operate and maintain pilot-scale equipment to analyze resin capacity and optimize the resin in water softener to reduce production cost and increase the efficiency of ion exchange
- Develop Process Flow Diagram and improve manuals for existing and new automation system
- Design and assemble 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

- Formulate composition of industrial coating according to the specification given by the clients
- Reduce cost production by evaluating substitute raw materials such as resin, pigment, and additives from suppliers
- Demonstrate techniques 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

EDUCATION

Bachelor of Chemical Engineering & Bachelor of Chemistry, GPA: 3.48 September 2017 – May 2021

University of Minnesota Twin Cities – Minneapolis, MN

SKILLS

- Language: Python, JavaScript, MATLAB, Mathematica, VBA, SQL
- Cloud service: Azure
- Quality Management Systems, CAPA, Root cause analysis

- SAP, Salesforce
- MS Office and Power Platform
- Aspen Plus
- Git and Github

Prerequisite Courses

- MATH 210 Linear Algebra, GPA: 4.0
- MATH 2374 CSE Multivariable Calculus, GPA: 4.0
- Math 146 Introduction to Statistics, GPA: 4.0