

FARIZ HANAFI HAMID

Senior Utility & Facility Engineer in GMP Biopharmaceutical Environment

Email: fariz.mech@gmail.com

Phone: +62 823 7112 2620

PROFESSIONAL SUMMARY

Senior Mechanical & Utility Engineer with 9+ years of experience in GMP-regulated biopharmaceutical manufacturing, specializing in critical utility systems (HVAC, cleanroom, boiler, chiller, and compressed air). Proven track record in ensuring high equipment reliability, regulatory compliance (GMP/CPOB), and operational continuity in aseptic and sterile production environments. Experienced in leading maintenance teams, driving CAPA and deviation resolution, and supporting audit readiness. Strong background in systems qualification (IQ/OQ/PQ), risk assessment, and facility engineering for pharmaceutical-grade operations. Demonstrated ability to bridge project, production, and facility engineering to ensure end-to-end operational reliability.

CORE SKILLS

TECHNICAL EXPERTISE

- GMP / CPOB Compliance & Audit Readiness
- HVAC & Cleanroom Systems (Pharmaceutical Grade)
- Critical Utilities: Boiler, Chiller, Cooling Tower, Compressed Air
- Equipment Qualification (IQ/OQ/PQ)
- Preventive & Predictive Maintenance Strategy
- Reliability Engineering & Root Cause Analysis (RCA)

ENGINEERING & OPERATIONS

- CAPA & Deviation Management
- Change Control & Risk Assessment
- SOP Development & Maintenance Planning
- Cross-functional Coordination (QA, Production, Engineering)

WORK EXPERIENCE

PT Jakarta Biopharmaceutical Industry – Utility & Facility Engineer (GMP Biopharmaceutical Manufacturing) (Jul 2023 – Present)

- Led and coordinated a team of 3 technicians in maintenance of multi-utility systems in pharmaceutical production facility
- Ensured reliability and operational readiness of AHU and critical utilities in GMP-regulated environment including temperature, humidity, and pressure differentials
- Designed and executed preventive & predictive maintenance strategies for critical utilities (AHU, chiller, boiler), contributing to improved systems reliability and reducing unplanned downtime
- Developed SOP and maintenance protocols for Boiler, Chiller, AHU, Cooling Tower, and Compressed Air systems
- Participated in CAPA, deviation handling, and root cause analysis for equipment-related issues
- Contributed to change control and risk assessment processes
- Supported audit activities and compliance documentation (GMP & CPOB)

PT Biofarma – Aseptic Production and Formulation Staff (Aseptic Sterile Vaccine Manufacturing) (Jan 2020 – Jun 2023)

- Involved in full lifecycle of nOPV2 vaccine production (pilot, engineering run, APS, commercial scale)
- Ensured readiness and reliability of production equipment during aseptic processing
- Supported deviation handling, CAPA, and audit readiness in GMP environment
- Coordinated with cross-functional teams (production, QA, engineering)
- Supported audit activities and compliance documentation (GMP & CPOB)

PT Biotech Maju Sejahtera – Service Engineer (EPC and After-sales for Pharmaceutical Industry) (Apr 2017 – Dec 2019)

- Executed installation and commissioning of pharmaceutical equipment to support operational readiness in GMP-regulated facilities
- Performed troubleshooting and maintenance of pharmaceutical production equipment
- Performed preventive maintenance and equipment calibration
- Handled upstream and downstream equipment including autoclave, LAF, passbox, and vessels
- Prepared technical service reports and maintenance documentation

KEY PROJECT & TECHNICAL HIGHLIGHTS

- Maintained high reliability of HVAC and critical utility systems in GMP cleanroom operations with consistent compliance performance
- Supported GMP audits with successful outcomes and no major operational disruption
- Contributed to sterile vaccine (nOPV2) scale-up from pilot to commercial production
- Standardized maintenance SOPs improving consistency and operational control
- Led root cause analysis and CAPA implementation for critical equipment

EDUCATION

Universitas Sriwijaya – Bachelor of Mechanical Engineering (2011 – 2016) GPA: 3.29

Final Project: Pressure Vessel Design Optimization using SolidWorks

CERTIFICATIONS

- Safety Construction Middle Expert