

MUHAMMAD RAYHAN PERMANA

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Proactive Refrigeration and Air Conditioning Engineering student with hands-on experience in commercial HVAC maintenance, including Chillers, Air Handling Units (AHU), and Variable Refrigerant Volume (VRV) systems. Experienced in preventive mechanical maintenance, real-time operational monitoring through Human-Machine Interface (HMI), and technical data logging. Strong problem-solving, communication, teamwork, and time-management skills.

WORK EXPERIENCE

PT. Forsta Kalmedic Global

Jun 2025 - Sep 2025

Internship – HVAC Maintenance

- Performed routine maintenance on Air-Cooled Chillers, including mechanical condenser cleaning without chemical cleaning agents to support heat-transfer efficiency.
- Monitored cooling-system operating parameters in real time and collected daily operational data through the Human-Machine Interface (HMI).
- Conducted periodic inspection and maintenance of Air Handling Units (AHUs), including evaporator coil cleaning and replacement of Pre-filter, Medium filter, and HEPA filter.
- Performed maintenance and operational monitoring of Variable Refrigerant Volume (VRV) units
- Prepared accurate daily logsheets covering Chiller, AHU, and VRV performance for technical analysis and maintenance documentation

Politeknik Negeri Bandung

Aug 2023 - Sep 2026

Student

- Installed and tested vapor-compression refrigeration systems with one evaporator and two evaporators as part of practical laboratory activities.
- Conducted practical work related to refrigeration and air conditioning systems, including system installation, component identification, basic troubleshooting, and performance observation.
- Developed instrumentation projects using temperature, humidity, pressure, sound, distance, and other sensors for monitoring and measurement applications.
- Performed practical maintenance activities on Air Handling Units (AHUs) and Chillers, including inspection, cleaning, and basic maintenance procedures.
- Practiced compressor disassembly and reassembly while learning the function and operation of refrigeration system components.
- Applied technical knowledge of refrigeration, HVAC systems, instrumentation, and preventive maintenance through laboratory projects and hands-on activities.

EDUCATION

SMA Negeri 1 Subang - Subang, Indonesia

Aug 2023 - Sep 2026

Senior High School

Politeknik Negeri Bandung - Bandung, Indonesia

Aug 2023 - Sep 2026

Diploma

ORGANIZATIONAL EXPERIENCE

Forum Komunikasi Mahasiswa Subang - Subang, Indonesia

Aug 2023 - Aug 2025

Head of Social Affairs Division

- Coordinated and executed school-visit activities to introduce Politeknik Negeri Bandung study programs to students.
- Led public presentations to explain the education system and study-program options in vocational higher education.

CERTIFICATIONS

- **PT FORSTA KALMEDIC GLOBAL**
Industrial Internship Certificate
- **PT Gree Electric Appliances Indonesia**
Residential Air Conditioner (RAC) Installation & Troubleshooting Training
- **PT Prihoda**
Smart Air Distribution with Textile Duct Technology
- **Asosiasi Ahli Refrigerasi dan Tata Udara Indonesia (A2RTU)**
HVAC Applications in Data Centers
HVAC Design and Implementation for Hospitals
HVAC Project Management
- **ETS**
TOEIC Score: 295

SKILLS

- **Technical:** RHVAC, Chiller, AHU, VRF, Preventive Maintenance, HVAC Monitoring, Basic Instrumentation
- **Software:** Microsoft Word, Microsoft Excel
- **Soft Skills:** Problem Solving, Time Management, Communication Skills, Teamwork