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## Education

### ▼ Sepuluh Nopember Institute of Technology (2012-2014)

Bachelor's Degree of Marine Engineering  
GPA: **3.43** / 4.00

### ▼ Diponegoro University (2008-2011)

Associate of Naval Architecture  
GPA: **3.01** / 4.00

## Experience

### ▼ Kinetik Hydrotech (2015-2022)

#### Engineering Consultant

- ◆ Procedural Design Solidworks, 2D CAD.
- ◆ Heavy and Light Current.
- ◆ Hydraulic & Pneumatic Engineer.
- ◆ Control and Instrumentation.
- ◆ C/C++ and Python, PLC Ladder.
- ◆ Linux Server and Workspace.
- ◆ Tax Management.
- ◆ Purchasing.

## Skills

- ◆ 3D CAD (Modeling) : Solidworks, SW-Sheet Metal, Fusion/Inventor, On-Shape, FreeCAD, Blender
- ◆ FEA : SW-Static Analysis
- ◆ Hydraulic & Pneumatic Engineer : Designer, System Engineer, Fitter
- ◆ 2D CAD/CAM : NanoCAD, Autodesk Autocad
- ◆ Linux OS : Debian, Fedora.
- ◆ SBC : Raspberry Pi, Khadas, Odroid
- ◆ MCU : Espressif, Arduino, ST.
- ◆ Programming : C, Python, Godot Script, Ladder (PLC).
- ◆ Database : SQL, No-SQL
- ◆ English (Pasif)

## Projects

### ▼ Hydraulic / Pneumatic System

- ❖ Loading/Unloading system of oil & gas land transport for LPG transport tank, AKR/Pertamina gasoline transport tank.  
**Key Exp** : Pneumatic System, BIM Modelling, FEM Static Analysis, Technical Support, Troubleshooter.  
**Client** : PT. Muntjul Diamond, PT. Metal Hitech Engineering
- ❖ Loading/Unloading system of Wing Box Logistic Truck, Heavy Lifting, Portable Winding.  
**Key Exp** : Hydraulic System, Pneumatic System, Technical Support, Troubleshooter.  
**Client** : PT. Muntjul Diamond, CV. Wijaya Baru
- ❖ Heavy Lifting Storage Tank.  
**Key Exp** : BIM Modelling, FEM Analysis, Hydraulic System, Heavy Current, Technical Support, Troubleshooter.  
**Client** : PT. Laban Raya
- ❖ Train's door lock/unlock, Panzer's Wheel Ejector.  
**Key Exp** : BIM Modelling, Cost Optimizations, Pneumatic System, Heavy Current, Control & Instrumentation.
- ❖ Safety Railing System.  
**Key Exp** : BIM Design, Pneumatic Systems.  
**Client** : PT. Muntjul Diamond
- ❖ Manual Winding System, Winch System.  
**Key Exp** : BIM Modelling, Hydraulic System, Fitter, Heavy Current, VFD.

### ▼ Computer Science

- ❖ Industrial Machinery : Hydraulic Baling Press, Bending Machine, Cutting Machine, Form Automations.  
**Key Exp** : PLC Programming, Heavy Current, VFD, Industrial Instrumentation, Troubleshooter, Technical Support.
- ❖ Robotic Microcontroller Unit (MCU) : Robot Meja Automatis (Codename: RoMeO).  
**Key Exp** : EDA Designer, Instrumentation & Control, C/C++ Programming, Light Current.  
**Result** : Silver Medal - Karangturi International Science and Entrepreneurship fair 2023 (KISEF).
- ❖ Robotic Single Board Computer (SBC) : AUTOMATIC ROBOT ASSISTANT: SOLUSI DISTRIBUSI OTOMATIS BERBASIS IOT BAGI PASIEN RAWAT INAP (Codename : AuRA).  
**Key Exp** : EDA Designer, Instrumentation & Control, C/C++, Python Programming, Machine Learning, V/A Intercom, Embedded Operating System, Light Current, Logic Analysis, Troubleshooter, Technical Support.  
**Result** : Win 1st award Krenova Bapedda Pati.