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S.T.

Scan the QR code above

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 (Diploma III)
GPA : **3.01** / 4.00

EXPERIENCE

Kinetik Hydrotec (2015-2022)
Engineering Consultant

★ Parametric 3D Design, CAD
  ○ Led modelling projects using SolidWorks to accelerate prototyping.
★ Electrical Systems
  ○ Designed, installed, and commissioned power distribution and control panels for industrial applications.
★ Hydraulic & Pneumatic Engineering
  ○ Developed hydraulic and pneumatic layouts, improving system efficiency.
★ Control and Instrumentation
  ○ Implemented PLC ladder logic (Telemecanique) and control sensors.
★ Programming
  ○ Wrote embedded C/C++ firmware for microcontroller–based devices dan Python / JS for front-end
★ Tax Management
  ○ Managed the tax system using e-Faktur (ETaxInvoice), including issuance of VAT (PPN) invoices and handling income tax (PPh) filings for individual taxable entrepreneurs (OP-PKP), currently implemented on the CoreTax platform.
★ Procurement & Purchasing.
  ○ optimized material costs, and streamlined the procurement process

SKILLS

Design Engineering
★ Solidworks, SW-Sheet Metal, On-Shape, Fusion/Inventor
★ Solidworks Static Load Analyze (Finite Element Analysis)
★ NanoCAD, Autocad (CAD / CAM)
★ EDA (Electrical)

Manufacturing
★ Hydraulic & Pneumatic Engineer (Designer, Fitter, System)
★ Automation and Control, PLC
★ Teamwork & Problem Solving (Soft Skill)

Office
★ Word, Docs, Writer
★ Excel, Spreadsheet: Pivot, Data-Relation
★ Ms. Project, Draw, Access
★ QGIS, Google Earth (GIS Project)

Computer Science
★ Server & OS:
  ○ Private Cloud (Nextcloud, Syncthing)
  ○ Smart Home (Home Assistant)
  ○ MySQL, PostgreSQL, MongoDB (DBMS)
★ Hardware & Embedded:
  ○ Raspberry Pi, Odroid, Orange Pi (Single Board Computer)
  ○ Xtensa Espressif, Arduino, STM32 (Embedded)
★ Language & Tools:
  ○ C / C++, Platformio (Embedded)
  ○ Python (Automation)
  ○ JavaScript (node-js, front-end)

PROJECTS

Hydraulic & Pneumatic System

- **Project:** Designed and implemented Loading/unloading systems for oil & gas land-transport vehicles (LPG tanks and AKR/Pertamina gasoline tanks)
  Key Expertise: Pneumatic systems, BIM modeling, static finite-element analysis, technical support, troubleshooting
  Clients: Muntjul Diamond; Metal Hitech Engineering
- **Project:** Designed and implemented Loading/unloading systems for wing-box logistic trucks, including heavy-lifting and portable winding operations
  Key Expertise: Hydraulic systems, pneumatic systems, technical support, troubleshooting
  Clients: Muntjul Diamond; Wijaya Baru
- **Project:** Heavy-lifting storage-tank systems
  Key Expertise: BIM modeling, FEM analysis, hydraulic systems, high-current electrical systems, technical support, troubleshooting
  Client: Laban Raya
- **Project:** Train door locking/unlocking mechanisms and Panzer wheel-ejector systems
  Key Expertise: BIM modeling, cost optimization, pneumatic systems, high-current electrical systems, control & instrumentation
- **Project:** Safety-railing systems
  Key Expertise: BIM design, pneumatic systems
  Client: Muntjul Diamond
- **Project:** Manual winding and winch systems
  Key Expertise: BIM modeling, hydraulic systems, mechanical fitting, high-current electrical systems, variable-frequency drives (VFD)

Computer Science

- **Industrial Machinery Projects**
  Scope: Hydraulic baling presses, bending machines, cutting machines, and forming automation systems
  Key Expertise: PLC programming; high-current electrical systems; variable-frequency drives (VFD); industrial instrumentation; troubleshooting; technical support
- **Robotic Project (RoMeO)**
  Project: Automated desktop robot (codename: RoMeO)
  Key Expertise: EDA design; instrumentation & control; C/C++ firmware development; low-current electrical systems
  Achievement: Silver Medal, Karangturi International Science and Entrepreneurship Fair 2023 (KISEF)
- **Robotic SBC Project (AuRA)**
  Project: Automatic Robot Assistant ("AuRA")—an IoT-based automated distribution solution for inpatient care
  Key Expertise: EDA design; instrumentation & control; C/C++ & Python programming; machine learning; voice/intercom integration; embedded OS; low-current electrical; logic analysis; troubleshooting; technical support
  Achievement: First Prize, Krenova Bapedda Pati