

WIYOGA ATMO DARWINTO, S.T

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About Me

Mechanical Engineer with expertise in manufacturing processes, drafting, CNC programming, CAD, and CAM systems. Proficient in designing and optimizing mechanical components, creating accurate technical drawings, and programming CNC machines for efficient production. Skilled in utilizing advanced CAD/CAM software to develop innovative and precise designs. Experienced in managing end-to-end manufacturing workflows, ensuring high-quality outputs, and maintaining production efficiency.

Skills and Competence

- AutoCAD
- CNC and CAD Machine
- Graphic Design
- Microsoft Office
- Frontend: HTML, CSS, JavaScript, TypeScript
- Backend: PHP, Node.js, Python, Java
- Multitasking and Organization

Work and Experience

Mechanic

CV Purnomo Motor | January 2018 – October 2019

- Performed engine overhauls on motor vehicles, including replacing and repairing key components such as pistons, valves, crankshafts and bearings ensuring optimal engine performance and improved durability.
- Conducted routine tune-ups on vehicle engines, including adjustments to fuel injection systems, carburetors, spark plugs and ignition systems to enhance fuel efficiency, engine performance and reduce emissions.
- Diagnosed mechanical and electrical issues using diagnostic tools and manual methods to troubleshoot problems in electrical systems, ignition systems, fuel systems, and cooling systems.
- Carried out regular preventive maintenance and component replacements such as air filters, oil filters, engine oil and transmission systems to maintain vehicle performance and reliability.
- Ensured vehicles undergoing repairs or maintenance passed road tests to verify that the vehicle operated correctly and met safety and performance standards.
- Provided customers with preventive maintenance recommendations to avoid costly repairs and extend vehicle lifespan.
- Worked on vehicle electrical systems, including starter motors, alternators and battery systems, ensuring smooth ignition and power charging systems.
- Managed spare parts inventory, including ordering and checking the availability of essential components to ensure smooth repair operations.
- Followed strict workplace safety procedures and maintained a safe and organized workspace, ensuring equipment was in good condition.
- Ensured all work was performed in accordance with automotive industry standards and quality procedures to deliver consistent, reliable results.

Assistant Mechanic (Internship)

PT Honda Menara Agung – Padang (June 2022 - July 2022)

Duties and Responsibilities:

- Assist in motorcycle maintenance and repair by supporting senior mechanics in diagnosing and fixing issues.
- Prepare and organize tools and workshop equipment to ensure efficiency.
- Help in motorcycle diagnostics using specialized tools to identify mechanical or electrical problems.
- Support component repair and assembly, including engine, suspension and electrical wiring.
- Manage inventory and order necessary spare parts.

Related Competencies:

- Proficient in motorcycle engine and mechanical diagnostics.
- Strong attention to detail for accurate and safe repairs.
- Knowledge of safety regulations and compliance standards.
- Customer service skills for clear communication regarding repairs.
- Effective teamwork and collaboration with senior mechanics.

EDUCATION

Bachelor of Mechanical Engineering (S.T.)

Ekasakti University | Graduated October 2024 | GPA: 3.43

Relevant Coursework & Skills:

- Fundamentals of Mechanical Engineering: Mechanics, thermodynamics, materials engineering and system dynamics.
- Machine Design & CAD: Proficiency in AutoCAD and other design software for technical drawings and modelling.
- Material Science & Structural Analysis: Application of engineering materials, stress and deformation analysis and fluid flow evaluation.
- Manufacturing Processes: Machining, welding, casting, fabrication and CNC implementation in production.
- Industrial Engineering & Project Management: Handling mechanical projects from design to execution, including research and process optimization.
- Turbine and Boiler Installations: Application in power generation and industrial systems.
- Communication & Reporting: Technical documentation, teamwork and project presentations.

Technical Skills:

- Design & CAD Software: Proficient in AutoCAD, Autodesk Inventor for 2D/3D modeling, drafting and design of mechanical systems.
- Manufacturing Processes: Knowledge of CNC machining, casting, welding and fabrication techniques for product development and production.
- Mechanical Testing & Quality Control: Experience in performing mechanical tests such as tensile, fatigue and impact testing.
- Materials Science: Expertise in material selection, fatigue analysis and the properties of metals, polymers, ceramics and composites.
- Project Management & Industrial Engineering: Strong understanding of project planning, resource management and process optimization in mechanical engineering projects.
- Power Generation & Thermal Systems: In-depth knowledge of turbine systems, boiler installations and energy conversion processes for industrial applications.
- Thermodynamics & Heat Transfer: Advanced understanding of thermodynamic cycles, heat exchangers, and principles of heat transfer, including conduction, convection and radiation.

Certifications & Training (Course)

Designing Machine Element Drawing Using AutoCAD

Platform: www.mindluster.com | January 2024 – August 2024

Key Learnings:

- Mastery of AutoCAD fundamentals for machine element design.
- Efficient use of commands, layers, dimensions, and annotations.
- Creating 2D and 3D models of machine components using extrude, revolve, and sweep tools.
- Understanding CNC integration with CAD for manufacturing automation.
- Developing CNC-executable programs from CAD designs.
- Completion of practical projects on machine element design.

Specific Competencies:

- AutoCAD, CNC and CAD Machine: Expertise in technical drawing and modelling.
- Welding, Graphic Design and Software Engineering: Supporting engineering projects with technical and visual communication.
- Manufacturing Process Optimization: Enhancing design efficiency for production feasibility.

Languages

- Indonesian (Native)
- English (Native)

Hobbies

- Designing with AutoCAD: Enjoy designing and drafting mechanical elements using AutoCAD for various design projects.
- Solving Psychometric Math Problems: Challenge myself with math problems to improve analytical and logical thinking skills.

Achievements

- Thesis Completion: Completed thesis titled "Analysis of the Influence of Welding Groove Angle Variations on the Mechanical Properties of AISI 1045 Steel," involving experimental testing and data analysis.
- Technical Data Analysis: Conducted in-depth mechanical testing and data analysis to determine the optimal welding conditions for AISI 1045 steel.
- Welding Process Insights: Gained practical insights into welding techniques and material behavior, enhancing understanding of welding quality.
- Design Application: Applied research findings in mechanical design, selecting appropriate materials and welding techniques for optimized mechanical properties.
- AutoCAD Course: Completed an AutoCAD course on www.mindluster.com, enhancing skills in technical drafting and mechanical modeling.

Award

- Automotive Engineering Competency Certificate (BNSP)
Certified in automotive engineering by BNSP validating technical skills in the automotive industry.
- Microsoft Certification
Certified by Microsoft for proficiency in using Microsoft applications and software tools for data Analysis and design.
- AutoCAD Course - Mindluster
Completed AutoCAD course on www.mindluster.com, enhancing skills in technical drafting and mechanical modelling.