

Yogatama Radik Hanindyaputra

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ABOUT

Final-year Mechatronics Engineering student at Politeknik ATMI Surakarta with hands-on experience in manufacturing processes, CNC machining, industrial automation, and machine integration. Proficient in PLC programming (Siemens, Omron, and Schneider), CAD design using SOLIDWORKS and AutoCAD, and programming with C, C++. Passionate about process improvement, manufacturing engineering, and automation, with a strong commitment to continuous learning and solving real-world engineering challenges.

EDUCATION

Politeknik ATMI Surakarta Diploma in Applied Mechatronics (D3)	2023-Present
• GPA : 3.82	2024-2025
SMK Katolik St. Mikael Surakarta Vocational High School - Mechanical Engineering	2020-2023
• Overall Grade : 86.32	

ACHIEVEMENT

Commitment Award 4C Mikael's Award SMK Katolik St. Mikael Surakarta	2020-2023
• Demonstrated strong discipline, responsibility, and consistency in academic and practical engineering activities.	

ORGANIZATION EXPERIENCES

ATMICUP 2025 Ticketing - IT Team Member	2024-2025
• Coordinated with team members to monitor ticket distribution and resolve technical issues efficiently.	
HMPS Mechatronics Politeknik ATMI Surakarta Treasurer	2024-2025
• Prepared financial reports for student organization activities and events.	

COURSE & CERTIFICATION

BNSP Competency Certification – Machining (LSP)	2023-2026
• Certified in conventional machining processes including milling and lathe operations, CNC Machining including covering machine setup, tool selection, and machining safety.	
SOLIDWORKS 3D Design Associate	2023-2026
• Developed 3D mechanical models, assemblies, and technical drawings using parametric CAD design.	
• Credential ID : C-4ESMLHRVT6	
SOLIDWORKS Electrical – Electrical Wiring Design	2023-2026
• Certified in conventional machining processes including milling and lathe operations, covering machine setup, tool selection, and machining safety.	
• Credential ID : C-EUCL5FWPM4	

PROJECT EXPERIENCE

Infant Warmer Testing and Wiring PT Citra Vita Buana	2024-2025
<i>Mechatronics Industrial Practice</i>	
• Performed electrical wiring installation, troubleshooting, and wiring revisions for Infant Warmer medical devices based on technical specifications.	
• Conducted functional testing and temperature monitoring at 10 minute intervals to verify system stability, heating performance, and operational safety.	
Safe Coin Treasury and Investment System	2024-2025
<i>Project Protocol</i>	
• Designed and developed a coin-based asset lending management system for students, requiring physical coin exchange as collateral for borrowed equipment.	
• Integrated multiple hardware components including Arduino MEGA 2560, RFID reader, HMI, RTC module, DHT22 sensor, and custom-designed 3D-printed PLA enclosure.	
• Developed embedded control logic for user authentication, transaction recording, environmental monitoring, and asset management.	

- Configured and verified CNC machine parameters on a Siemens 808D controller for VMC operation.
- Developed PLC I/O addressing and signal allocation for machine control, automation, and safety functions.
- Ensured proper integration between CNC controller, PLC signals, electrical components, and machine peripherals.

- Designed and built a 2-axis CNC engraving machine with an additional pneumatic Z-axis using a double-acting cylinder.
- Developed mechanical, electrical, and pneumatic systems, including machine assembly, wiring, panel integration, and component installation.
- Configured GSK980TDa controller, Mitsubishi MR-J3 servo drives, and HF-KP23 servo motors for precise motion control.

SKILLS

Programming	: PHP, JavaScript, HTML, C, C++, C#
Control System	: Capable of interfacing, using, and implementing PLC & SCADA, Arduino
Tools	: RoboDK, LabVIEW, VSCode, FluidSIM, Siemens TIA Portal, CX-Programmer, VSCode, EcoStruxure, Vijeo Designer,
Design	: SolidWorks 3D, SolidWorks Electrical, AutoCAD, Autodesk Fusion
Machining	: Capable of operating CNC (Milling & Lathe), Conventional Milling, Conventional Lathe, Drilling Machine, Grinding Machine
Language	: Native in Indonesian, Fluent in English