

ANAS NASRULLAH

TECHNICAL IMPLEMENTATION & PRODUCT OPERATIONS SPECIALIST

System & Hardware Implementation | Quality Assurance (QA) | Technical SOPs | User Training & Enablement

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PROFESSIONAL SUMMARY

Technical Implementation & Product Operations Specialist with 3.5+ years of experience evaluating emerging technologies, leading multi-site hardware-software rollouts across 16+ partner institutions, executing Quality Assurance (QA), and authoring standardized technical SOPs. Possesses a strong hybrid skill set spanning embedded/IT diagnostics, asset tracking, vendor coordination, and user enablement (trained 20+ technical staff and hundreds of end-users). Proven leadership as the Coach & Mentor of the 1st Place National Championship team at World Robot Olympiad (WRO) Indonesia 2025, advancing to the International Final in Singapore. Adept at cross-functional execution to ensure reliable, high-impact product operations.

CORE COMPETENCIES

Implementation & Operations: Multi-Site Technical Rollouts | Asset & Logistics Management | Vendor Evaluation & Coordination | Preventative Maintenance | **Quality Assurance & SOPs:** Quality Assurance (QA) | Hardware Acceptance Testing (HAT) | Root Cause Diagnostics | Technical Documentation & Checklists | **Technical Enablement & Leadership:** User Training & Enablement (ToT) | Technical Project Management | Technology Competition Coaching

PROFESSIONAL EXPERIENCE

R&D; Officer & Senior Teacher

Oct 2022 – May 2026

Codero Education - PT. Cipta Daya Inovasi (Hasnur Group) | Tangerang, Indonesia

Career progression: Part-Time Coding & Robotics Teacher (Oct 2022 - Apr 2023) → Full-Time Teacher (Apr 2023 - Apr 2024) → R&D; Officer & Senior Teacher (Apr 2024 - May 2026)

- **Technology Platform Benchmarking & Evaluation:** Researched, validated, and established operational frameworks for 8+ tech platforms (microcontrollers, robotics kits, AI vision, and simulation engines), expanding solution offerings by 40%.
- **Multi-Site Deployment & Implementation:** Spearheaded hardware and software rollouts across 16+ partner schools, ensuring equipment readiness, system configuration, and seamless end-user onboarding.
- **Product QA & Hardware Acceptance Testing (HAT):** Executed comprehensive functional QA, compatibility verification, and incoming hardware inspections to maintain 100% field reliability.
- **Standardization of Technical SOPs & Workflows:** Authored 15+ operational SOPs, wiring schematics, system flows, and deployment checklists, reducing on-site setup friction by 35%.
- **Vendor Coordination & Asset Management:** Managed equipment inventory, analyzed spare parts specifications, and negotiated with hardware vendors to optimize Bill of Materials (BOM) procurement.
- **Technical Enablement & User Training:** Onboarded and trained 20+ technical staff through structured weekly product demonstrations, troubleshooting simulations, and quality control audits.
- **Event Operations & Competition Leadership:** Served as Lead Technical PIC and judge across 15+ science fairs, hackathons, and technology tournaments engaging 500+ participants.

SELECTED IMPLEMENTATION & ENGINEERING PROJECTS

ECO-DERO: Integrated Environmental Monitoring Station (2025) - Lead Implementation & System Developer

- Engineered an Arduino Nano multi-sensor station (soil moisture, flame, temperature, flood, vibration) featuring real-time visual LCD status and serial data stream.
- Managed complete design lifecycle: circuit wiring, C++ firmware logic, functional QA, and standardized modular implementation across partner schools.

Aura Link: Assistive Smart Home & Solar Tracking (2025) - Coach & Technical Integration Lead | IoT & Automation

- Engineered an assistive smart home prototype utilizing DF2301Q offline voice recognition, automatic power relay switching, and dual-axis solar tracking.
- Led hardware-software integration, reliability testing, and presentation coaching that won **1st Place National at World Robot Olympiad (WRO) 2025** and advanced to the International Final in Singapore.

AI Cam Detector: Visual Recognition Learning Prototype (2025) - Prototype Developer | AI Vision Workflow

- Developed an applied computer vision prototype processing live camera streams into accessible, modular applied AI workflows.

Arena Codero Roblox Championship (2025) - Technical Operations Lead & System Designer | Roblox Studio / Luau

- Engineered an event-driven virtual simulation environment in Luau, integrating real-time live scoring algorithms deployed for 200–250 concurrent participants.

HONORS & AWARDS

- **Coach & Technical Mentor - 1st Place National Champion, World Robot Olympiad Indonesia**, Future Innovators Elementary 2025 (Surabaya, ITS); advanced team to the WRO International Final in Singapore.
- **International Final Coach - WRO Future Innovators 2025, Singapore**; managed technical readiness, system documentation, and presentation coaching.
- **Team Mentor - Top 8 National Finalist, National Standardization Competition 2026**, National Standardization Agency (BSN), Team VIONIX.

HYBRID TECHNICAL & OPERATIONAL SKILLS

Technical Implementation & Operations: Multi-Site Solution Rollouts, Hardware/Software Diagnostics, Asset & Inventory Management, Vendor Coordination, Logistics Planning, Preventative Maintenance, SOP & Deployment Checklists.

Embedded Systems, IoT & Networking: Arduino Microcontrollers (UNO/Nano/Mega), ESP32/ESP8266 fundamentals, Multi-Sensor & Actuator Integration, Relay Systems, Protocols (I2C/UART/SPI), LAN & TCP/IP Basics, Access Point Setup.

Software, Programming & AI: Arduino C/C++, Lua/Luau (Roblox Studio), SQL fundamentals, HTML/CSS, Python fundamentals (Tkinter/Data), Block-based Coding, HuskyLens AI Vision, CreatiCode, Tinkercad, Circuit Designer, Fritzing.

Data Management & Productivity: Advanced Microsoft Excel (PivotTable, XLOOKUP, Data Validation, Automated Dashboards), Quality Control (QC), Training of Trainers (ToT), Workshop Facilitation.

EDUCATION

Bachelor of Computer Science (S.Kom. - Teknik Informatika) | Pamulang University, South Tangerang | Graduated Jan 2022

Vocational Diploma in Computer Network Engineering (TKJ) | SMK Pustek Serpong | Graduated 2017

SELECTED CERTIFICATIONS

- AI for Work & Career Readiness with Google AI Products - Hacktiv8 Indonesia, June 2026
- Excel Mastery: Beyond the Basics - Excel Academy, May 2026
- Building a Sustainable World by 2030 - SDG Academy, May 2026
- Coding for Kids: Scratch, Python, Robotics, HTML & CSS - Udemy, January 2026
- STEAM Workshop for Educators - YPK ORA et LABORA x Stick 'Em, February 2025

LANGUAGES

Indonesian: Native | **English:** Professional Working Proficiency (Professional communication, technical documentation & international presentations)