



# MALIK FAJAR MAULANA

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Production Engineer with 2+ years in sand casting and machining, with a strong foundation in maintenance. Skilled in PLC programming, IoT implementation, electrical troubleshooting, and production machinery optimization. Experienced in CAD modeling for electrical/mechanical design and layout. Committed to enhancing system performance and reliability.

## Work Experiences

**PT Yanmar Indonesia - Kab. Bekasi, Indonesia** May 2022 - Present

*Production Engineering Staff*

Japanese casting company specializing in the production of diesel engines for agricultural and maritime applications.

- Carrying out preventive and corrective maintenance, particularly in electrical systems and programming.
- Analyzing and reporting results after performing corrective maintenance.
- Increasing productivity, safety, and reducing costs by implementing improvements to existing machines.
- Creating projects to enhance production process flow based on feedback from the production department.
- Preparing all necessary requirements for new machine installations, including scheduling, layout planning, and utility setup.
- Supervising vendors during machine installation and maintenance.
- Commissioning new machines and preparing reports to ensure they meet specified standards.
- Implementing IoT solutions to support data-driven decision-making and optimize production processes.
- Awarded 1st place in the Yanmar President Award for the "Recycle Use Starting Block" project.

**PT Lucky Light Globalindo - Kab. Bogor, Indonesia** Feb 2021 - Jul 2021

*Junior Maintenance Engineer | Internship*

A company engaged in manufacturing that produces transformers

- Support for preventive maintenance and corrective maintenance
- Designing HVAC installation for factories
- Electrical Wiring Test Bay Transformer 24 MVA
- Improvement Vacuum Chamber machine system

## Education Level

**Politeknik Manufaktur Bandung - Bandung** Jul 2018 - Oct 2021

*Diploma in Mechatronics, 3.35/4.00*

**SMK Negeri 1 Cimahi - Cimahi** Jul 2014 - Aug 2018

*High School Diploma in Industrial Instrumentation, 82.00/100.00*

## Organisational Experience

**Himpunan Mahasiswa Mekatronika dan Otomasi - Bandung, Indonesia** Aug 2019 - Dec 2020

*Deputy Head of Division KOMINFO*

**Keluarga Mahasiswa Islam POLMAN Bandung - Bandung, Indonesia** Jul 2019 - Jun 2020

*Deputy Head of Division Syiar*

## Skills, Achievements & Other Experience

- **Skills:** PLC & HMI Programming (Mitsubishi, Keyence, Omron), Electrical Wiring, Electrical Troubleshooting, IoT Implementation & Data Visualization, Communications protocols, Fanuc Robot, Pneumatic control, AutoCad, Solidworks, Ms. Office (Word, Excel, Power Point, Visio, Project, Access)
- **Projects (2024):** Developed a new Barinder machine to replace the old one, increasing productivity by up to 35%
- **Projects (2023):** "Reusing starting block fluid can reduce scrap purchases by 30%", "Increasing X7 production capacity by reusing unused machines", "Increase product quality assurance and reduce man power with the addition of the Barinda inspection robot"
- **Projects (2022):** "Installation of air blow gas hole robots to reduce man power", "Increased inspection robot capacity for X7 products", "Re-lay out the position of the grinding machine to reduce cycle time by 50%"
- **Hard Skills (2020):** Sertifikasi Kompetensi Pemeliharaan Elektrikal - BNSP