

MUHAMAD IQBAL FATURRAHMAN

West Java, Indonesia | muhamadiqbalfaturrahman@gmail.com | +62 851 5614 0757 |
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INTERNSHIP / WORKING EXPERIENCE

SUA Cervosys, Bogor

September 2025 - Present

Junior System Administrator Freelance

- Built the company's data center infrastructure from the ground up in collaboration with the IT team.
- Configured monitoring and alerting systems using Prometheus and Grafana to ensure service reliability and proactive incident response.
- Secured server infrastructure by implementing firewall rules and network policies using UFW, enhancing protection against unauthorized access and external threats.

Koperasi Pegawai Indosat (KOPINDOSAT), Kebagusan, Jakarta Selatan

February - August 2026

Informatics and Technology Internship

- Manage, maintain and troubleshooting hardware and software (soldering, changing electronics part, windows security hardening, software installation, etc) coworker at other division devices (Laptop, PC as Server, Printers) ensure it safe referring to ISO 27001.
- Build and deploy localhost odoo using docker compose using Proxmox Virtual Environment.
- Installing hardware (PC GPU, Server SAS, etc.) and Windows or Linux software.
- Preparing and become an IT Operator at Kopindosat internal event (Buka Puasa Bersama, Rapat Pimpinan, ISO Audit, etc.).
- Built, maintain and release Kopindosat Geofencing Attendance system integrated with Odoo attendance module using flutter mobile applications both for Android and IOS.

PROJECTS

IO-Lock: Server Room Monitoring & Security System (Patented HAKI)

February - June 2025

- Developed an embedded system using an ESP32 microcontroller and a BME280 sensor to track temperature and humidity inside server rooms.
- Implemented secure authentication using an RC522 RFID module with servo actuators for physical access management.
- Ensured data integrity and secure telemetry storage by integrating the system directly with Firebase cloud storage.

Automated Dry Leaf Processing to Poultry Feed

August - November 2025

- Designed the electronic circuits for an automated agricultural IoT processing system.
- Utilized an ESP32 microcontroller connected to a 24-volt DC motor with physical button controls to adjust processing speeds.

Early Bilirubin Level Detection System for Neonatal Jaundice

February - June 2026

- Led a team of seven members to build a medical screening hardware prototype based on a Raspberry Pi 5.
- Designed custom electrical circuits using a 5V step-down regulator, 8.2V 2S LiPo battery, 3.3V LED strip, and a 2S BMS protection circuit.
- Programmed the core application using Rust and Python, deploying the interface via Tauri in kiosk mode on Debian Trixie.

EDUCATION

IPB University, Bogor

6th Semester on Computer Engineering(GPA: 3.50 of 4.00)

July 2023 - June 2027 (Expected)

SKILLS

Programming & Frameworks	C++, Python, Rust, Flutter, Tauri, Arduino/ESP32 Logic Understanding
Microcontrollers & IoT	ESP32, Raspberry Pi, Arduino, LoRaWAN Connectivity, Embedded Circuit Design
Linux & Systems	System Administration, Prometheus, Grafana, LVM, User Management, Firewalls (UFW)
Cloud & Containerization	Docker (Compose, File, Networking), Proxmox VE, Google Cloud Platform, AWS Fundamentals
Networking & CI/CD	Cisco CCNA Networking & Security Dynamics, Jenkins, GitLab Pipelines
Languages	Bahasa Indonesia (Native), English (Beginner)

CERTIFICATIONS

- Introduction to Networks | Network Security | Introduction to Cybersecurity (Cisco Networking Academy)
- Certified Basic Linux System Administration | Linux System Administration (Adinusa - Btech Academy)
- Docker Fundamentals (Adinusa - Btech Academy)
- AWS Cloud Fundamentals (Dicoding)

HONORS & AWARDS

- **Silver Medal (Transporter Category)** - Mechanical and Biosystem Fair (MBF), IPB University (December 2024)
- **Silver Medal (Transporter Category)** - Futura, Universitas Padjadjaran (November 2025)
- **Surat Pencatatan Ciptaan (HAKI)** - Computer Program: "IO-Lock" (No. 001011864, November 2025)

COURSE, AWARD, AND SKILLS CERTIFICATE



This certificate is awarded to

Muhamad Iqbal Faturrahman

for successfully completing

Network Security

offered by Sekolah Vokasi Institut Pertanian Bogor
through the Cisco Networking Academy program.

SHELVIE NIDYA NEYMAN
Instructor
Sekolah Vokasi Institut Pertanian Bogor

26 Dec 2025
Completion Date

This certificate is awarded to

Muhamad Iqbal Faturrahman

for successfully completing

Introduction to Cybersecurity

offered by IDCamp

through the Cisco Networking Academy program.

IDCamp Dlooding
Instructor
IDCamp

20 Aug 2025
Completion Date



CERTIFICATE OF ACHIEVEMENT

MUHAMAD IQBAL FATURRAHMAN

Has successfully completed Modul

Linux System Administration

President Directors

Syah Dwi Prihatmoko

Certificate Number:

C01001-00000-44465



CERTIFICATE OF ACHIEVEMENT
MUHAMAD IQBAL FATURRAHMAN

Has successfully completed Modul
Docker Fundamental

President Directors

Syah Dwi Prihatmoko

Certificate Number:
C01002-00000-44464



REPUBLIK INDONESIA
KEMENTERIAN HUKUM

SURAT PENCATATAN CIPTAAN

Dalam rangka perlindungan ciptaan di bidang ilmu pengetahuan, seni dan sastra berdasarkan Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta, dengan ini menerangkan:

Nomor dan tanggal permohonan	: EC002025171604, 5 November 2025
Pencipta	
Nama	: Muhamad Iqbal Faturrahman, Annisa Raihanah Maimun dkk
Alamat	: Jl. Serimai Majan II No. 29 RT. 01 Kel. Suka Karya Kec. Kota Baru, Kota Baru, Kota Jambi, Jambi, 36122
Kewarganegaraan	: Indonesia
Pemegang Hak Cipta	
Nama	: Institut Pertanian Bogor
Alamat	: Ged. Manajemen STP IPB Jl. Taman Kencana No. 3, Babakan, Bogor -, Bogor Tengah, Kota Bogor, Jawa Barat, 16128
Kewarganegaraan	: Indonesia
Jenis Ciptaan	: Program Komputer
Judul Ciptaan	: IO-Lock
Tanggal dan tempat diumumkan untuk pertama kali di wilayah Indonesia atau di luar wilayah Indonesia	: 13 Oktober 2025, di Kota Bogor
Jangka waktu perlindungan	: Berlaku selama 50 (lima puluh) tahun sejak Ciptaan tersebut pertama kali dilakukan Pengumuman
Nomor Pencatatan	: 001011864

adalah benar berdasarkan keterangan yang diberikan oleh Pemohon.
Surat Pencatatan Hak Cipta atau produk Hak terkait ini sesuai dengan Pasal 72 Undang-Undang Nomor 28 Tahun 2014 tentang Hak Cipta.



a.n. MENTERI HUKUM
DIREKTUR JENDERAL KEKAYAAN INTELEKTUAL
u.b
Direktur Hak Cipta dan Desain Industri



Agung Damarasongko,SH.,MH.
NIP. 196912261994031001



Disclaimer:

1. Dalam hal pemohon memberikan keterangan tidak sesuai dengan surat pernyataan, Menteri berwenang untuk mencabut surat pencatatan permohonan.
2. Surat Pencatatan ini telah disegel secara elektronik menggunakan segel elektronik yang diterbitkan oleh Balai Besar Sertifikasi Elektronik, Badan Siber dan Sandi Negara.
3. Surat Pencatatan ini dapat dibuktikan keasliannya dengan memindai kode QR pada dokumen ini dan informasi akan ditampilkan dalam browser.

* HAKI IO-Lock sistem monitoring suhu server menggunakan sensor *BME280* integrasi menggunakan *ESP32* dan *RFID NFC Card Reader* untuk manajemen akses pintu server dengan aktuatur servo.

LAMPIRAN PENCIPTA

No	Nama	Alamat
1	Muhamad Iqbal Faturrahman	Jl. Serunai Malam II No. 29 RT. 01 Kel. Suka Karya Kec. Kota Baru Kota Baru, Kota Jambi
2	Annisa Raihanah Maimun	Bumi Indraprasta 2 Jl. Drupada 9 No. 15 RT. 04 RW. 14, Kel. Tegal Gundil, Kec. Bogor Utara Bogor Utara, Kota Bogor
3	Selpi Anjeli	Kp. Pangsor RT. 06 RW. 03, Desa Sinarasa, Kec. Cikakak Cikakak, Kab. Sukabumi
4	Aditya Wicaksono, S.Komp., M.Kom.	Perumahan Graha Arradea Blok E No. 07 RT. 05 RW. 12 Desa Ciherang Kec. Dramaga Dramaga, Kab. Bogor
5	Endang Purnama Giri, S.Kom., M.Kom.	Jl. Seroja I No. 37 Taman Yasmin Sektor 3 RT. 5 RW. 8, Kel. Curug Mekar, Kec. Bogor Barat Bogor Barat, Kota Bogor



PRODUCTIVITY WHILE ON CAMPUS







