

MOHAMAD IZZAT BIN HERMAN

Technology Solutions | Drone Data Operations | Digital Inspection Platforms

Southville City, Dengkil, Selangor 43800 | +60 11-36305198 | izzatherman@gmail.com



CAREER SNAPSHOT

2019	2020	2023	2024 - Present
Internship / Data Analyst	Solution Engineer	Senior Solution Engineer	Assistant Manager

EXECUTIVE PROFILE

Technology and solutions professional with more than 6 years of experience across drone technology, data workflows, digital inspection platforms, enterprise software support, and geospatial inspection operations. Experienced in connecting business operations, technical teams, and client requirements across energy, utilities, telecommunications, infrastructure, and aviation-related environments.

Currently serving in an Assistant Manager capacity within Aerodyne's software and innovation ecosystem, contributing to solution support, product enhancement, AI annotation workflows, KPI reporting, platform readiness, and stakeholder-driven digital transformation initiatives.

Strong end-to-end exposure from data analyst and solution engineer roles to business analysis, client coordination, system enhancement, release readiness, operational reporting, and cross-functional delivery. Combines aviation technology background with economics studies to support practical, commercially aware, and scalable digital solutions.

KEY ACHIEVEMENTS

- Contributed to drone-based digital inspection platforms supporting grid, utility, telco, infrastructure, and asset management programmes.
- Improved operational workflows and standardised cross-team processes, reducing ambiguity and increasing execution efficiency by approximately 30%.
- Supported data-processing and platform workflow improvements that contributed to up to 80% efficiency gain in energy-sector digital transformation initiatives.
- Designed AI-driven annotation workflows to improve data quality, reduce cycle time, and support scalable inspection intelligence.
- Built KPI frameworks, dashboards, and reporting structures to improve visibility of team performance, project progress, operational bottlenecks, and delivery quality.
- Supported RFIs, RFQs, technical proposals, issue tracking, UAT readiness, release validation, and executive-level solution documentation.
- Worked with international and regional clients across Malaysia, Southeast Asia, USA, India, and Chile, supporting onboarding, platform adoption, technical clarification, and solution delivery.
- Recognised as an industry participant in the UniKL MIAT Focus Group Discussion Workshop: Technology-Driven TVET for Aviation Industry Study.

CORE VALUE

Solution Translation: Convert operational pain points, client requirements, and leadership direction into functional specifications, workflow designs, and practical implementation actions.

Operational Control: Strengthen delivery discipline through KPI tracking, issue visibility, quality checks, process documentation, and structured communication between teams.

Inspection Intelligence: Support the journey from raw drone data to validated inspection output, AI-ready datasets, dashboards, and client-facing reports.

PROFESSIONAL
EXPERIENCE

AERODYNE GEOSPATIAL SDN BHD

ASSISTANT MANAGER, INNOVATIONS (SOFTWARE) (Jan 2024 - Present)

Cyberjaya, Selangor

- Lead business analysis and operational improvement initiatives across software, drone data, AI annotation, and digital inspection projects, translating business needs into clear technical requirements.
- Act as liaison between engineering, operations, leadership, and external stakeholders to align solution direction, implementation priorities, delivery expectations, risks, and dependencies.
- Support enterprise SaaS platforms involving drone inspection, asset visualisation, reporting, analytics, annotation workflows, operational dashboards, and client-facing modules.
- Translate client requirements into structured documentation, functional specifications, product enhancement requests, user stories, workflow diagrams, and solution roadmaps.
- Improve cross-functional workflows by mapping current-state and future-state processes, identifying inefficiencies, clarifying ownership, and standardising execution methods.
- Build KPI frameworks and reporting structures to monitor project progress, team productivity, annotation quality, platform performance, and operational bottlenecks.
- Support RFIs, RFQs, technical proposals, executive documentation, client updates, and internal decision papers by converting operational and business requirements into clear solution narratives.
- Contribute to AI annotation workflow design, improving data consistency, review quality, label governance, and delivery scalability for inspection intelligence use cases.
- Provide internal consultancy to software teams by validating whether platform enhancements meet operational requirements, user expectations, and client delivery needs.

SELECTED
PROJECT
EXPOSURE

TNB / Grid Digital Inspection Platforms: Managed grid powerline asset data workflows, inspection dashboards, reporting logic, operational data processing, defect visibility, and utility-sector delivery alignment.

TNB SaaS / Platform Consolidation: Managed consolidation efforts across TNB-related systems covering grid, telco, digital inspection modules, requirements clarification, issue tracking, release readiness, and stakeholder coordination.

AI Annotation & Data Workflow Improvement: Improved annotation workflows for AI model readiness, defect classification, structured inspection datasets, review loops, and quality control processes.

SAAS / PAAS Digital Inspection Ecosystem: Lead operational feedback for drone data viewers, reporting modules, live operations workflows, inspection repositories, and platform usability improvements.

Cloud / Integration Readiness: Assisted coordination and requirement clarification for platform readiness, environment testing, data transfer expectations, and operational handover activities.

TNB Warehouse / Drone Dock Operations: Supported drone-based warehouse monitoring concepts involving DJI Dock, automated data capture, reporting workflows, processing constraints, and operational SLA considerations.

LJK / SESB / TNB Platform Support: Supported migration and platform-related discussions involving data migration, staging, production readiness, support planning, and operational handover considerations.

POC & Innovation Support: Provided solution input for proof-of-concept initiatives involving drone inspection, IoT dashboards, AI detection, asset monitoring, and digital reporting workflows.

PROFESSIONAL
EXPERIENCE

AERODYNE GEOSPATIAL SDN BHD

SENIOR SOLUTION ENGINEER, PRODUCT SOLUTIONS (Mar 2023 - Jan 2024)

Cyberjaya, Selangor

- Translated business and operational requirements into functional specifications for enterprise SaaS platforms supporting reporting, analytics, inspection, and client-facing modules.
- Conducted gap analysis to identify product workflow improvements and influence software enhancement priorities, release readiness, and UAT validation.
- Collaborated with enterprise clients to understand operational challenges and propose data-driven solutions aligned with asset management and inspection needs.

SOLUTION ENGINEER, PRODUCT SOLUTIONS (Feb 2020 - Feb 2023)

Cyberjaya, Selangor

- Delivered digital transformation support for energy-sector inspection programmes, improving data-processing efficiency by approximately 80% through workflow optimisation and system tuning.
- Executed Agile and SDLC activities across requirements gathering, solution design, testing, deployment support, and post-release improvement.
- Supported product development involving drone inspection data, defect classification, analytics, reporting modules, and client operational workflows.
- Worked with clients across USA, India, Chile, Malaysia, and Southeast Asia to support onboarding, platform adoption, solution troubleshooting, and operational feedback.

DATA ANALYST / INTERNSHIP FOUNDATION (Jan 2019 - Jan 2020)

Cyberjaya & Phileo Damansara, Selangor

- Performed high-volume inspection data validation, processing approximately 80 towers per day while maintaining accuracy above 99%.
- Created structured reports and defect classification frameworks to support infrastructure inspection, asset risk prioritisation, and client reporting.
- Built early foundations in drone data processing, visual inspection logic, quality control, task coordination, and technical documentation.

INDUSTRY
ENGAGEMENT

UNIKL MIAT FOCUS GROUP DISCUSSION WORKSHOP

Technology-Driven TVET for Aviation Industry Study | Participant / Industry Contributor | 5 Dec 2024 | Bangi Resort Hotel

- Contributed industry insights in a focus group discussion involving UniKL MIAT, MARA Corporation, and aviation education stakeholders.
- Supported discussion on aviation-focused TVET direction and alignment with evolving technology, drone, and digital inspection industry needs.

EDUCATION
&
SKILLS

EDUCATION

- Bachelor's in Economics with Honours (Part-Time), Universiti Kebangsaan Malaysia – Expected Graduation 2028
- Diploma of Engineering Technology in Aeroplane Maintenance, UniKL Malaysian Institute of Aviation Technology - Graduated 2019

SKILLS & EXPERTISE

Technology & Platforms: Drone inspection platforms | SaaS product support | Digital inspection systems | Data annotation | AI workflow support | Cloud integration coordination

Business & Operations: Business analysis | Requirements gathering | Process improvement | KPI development | Workflow mapping | Root cause analysis

Project & Product Delivery: Agile | SDLC | Product lifecycle support | UAT support | Release readiness | Stakeholder management | Executive reporting

Data & Reporting: Data validation | Dashboard reporting | KPI tracking | Quality control | Defect classification | Operational analytics

Industry Domain: Grid inspection | Utility asset management | Telco inspection | Aviation technology | Drone operations support

Languages: Malay: Native / Professional | English: Professional working proficiency