Bangkit Dengan Ilmu.

CHEMPAKA

ENGINEERING SERVICES

AI • IoT • ENGINEERING

COMPANY PROFILE

Engineering Intelligence for a Smarter Future



AI SOLUTIONS
Automation for Better Decisions

IoT SYSTEMS
Real-Time Data and Connectivity

ENGINEERING
Practical Solutions for Real Operations

DIGITAL TRANSFORMATION
More Efficient and Sustainable Operations

RELIABLE Solutions | **PRACTICAL** Implementation | **CUSTOMER FOCUSED** Partnership | **SUSTAINABLE** Growth

www.chempaka.com

CHEMPAKA
ENGINEERING SERVICES
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ABOUT US

Penyelesaian AI, IoT dan Kejuruteraan untuk Operasi yang Lebih Cekap, Selamat dan Berdaya Saing.

Chempaka Engineering Services ialah penyedia penyelesaian AI, IoT dan kejuruteraan yang memberi tumpuan kepada digitalisasi, pemantauan aset, automasi dan keberkesanan operasi untuk pelbagai industri.

Kami menggabungkan teknologi terkini dengan pengalaman kejuruteraan praktikal bagi membantu pelanggan meningkatkan kecekapan, mengurangkan risiko dan mencapai operasi yang lebih selamat, mampan dan berdaya saing.

PELANGGAN DIUTAMAKAN
Penyelesaian yang disesuaikan dengan keperluan sebenar.

INOVASI BERTERUSAN
Menggunakan teknologi terkini untuk hasil yang lebih baik.

KEBOLEHPERCAYAAN
Penyelesaian yang praktikal, stabil dan boleh dipercayai.

NILAI JANGKA PANJANG
Membantu pelanggan mencapai operasi yang mampan dan berdaya saing.

BIDANG FOKUS UTAMA



AI SOLUTIONS
Automasi dan analitik untuk keputusan lebih tepat.



IoT SYSTEMS
Pemantauan masa nyata dan kesalinghubungan data.



ENGINEERING
Penyelesaian kejuruteraan praktikal untuk operasi sebenar.



DIGITAL TRANSFORMATION
Meningkatkan kecekapan, keselamatan dan daya saing.

PELBAGAI INDUSTRI

Utiliti & TNB | Kilang & Industri | Bangunan Komersial | Hospital & Kesihatan | Hotel & Hospitaliti | Institusi Pendidikan | Kerajaan & Pihak Berkuasa

CHEMPAKA
ENGINEERING SERVICES

AI • IoT • ENGINEERING



OUR FOUNDER



Ir. Mohd Hilmi bin Ishak
P.Eng (Electrical), ACPE

Founder & CEO
Chempaka Engineering Services Sdn. Bhd.

- Pengalaman dalam industri elektrik dan utiliti
- Gabungan kejuruteraan, teknologi AI dan penyelesaian praktikal
- Fokus kepada penyelesaian yang memberi manfaat kepada pelanggan dan manusia
- Komitmen untuk membina organisasi yang lebih cekap, selamat dan berdaya saing

"Teknologi dan kejuruteraan mesti memberi manfaat kepada manusia."

Ir. LAT

LATAR BELAKANG SYARIKAT

Chempaka Engineering Services ialah penyedia penyelesaian AI, IoT dan kejuruteraan yang berfokus kepada digitalisasi, pemantauan aset, automasi dan peningkatan kecekapan operasi untuk pelbagai industri. Kami menggabungkan pengalaman kejuruteraan praktikal dengan teknologi terkini bagi menyediakan penyelesaian yang boleh dipercayai, selamat dan memberi nilai jangka panjang kepada pelanggan.

NILAI TERAS

INTEGRITI
Amanah dalam setiap tindakan

INOVASI
Mencari penyelesaian yang lebih baik

KEBOLEHPERCAYAAN
Penyelesaian yang stabil dan selamat

KERJASAMA
Bersama pelanggan dan rakan strategik

MATLAMAT KAMI

- Menjadi penyedia penyelesaian AI, IoT dan kejuruteraan yang dipercayai di rantau ini.
- Membantu organisasi beroperasi dengan lebih cekap, selamat dan mampan.
- Memberi nilai kepada pelanggan, masyarakat dan industri.

PENGALAMAN & KEPAKARAN



UTILITI & TNB
Operasi, penyelenggaraan dan digitalisasi aset

KILANG & INDUSTRI
Automasi, pemantauan dan kecekapan tenaga

BANGUNAN KOMERSIAL
Sistem pengurusan bangunan dan tenaga

HOSPITAL & KESIHATAN
Kebolehpercayaan, keselamatan dan pemantauan

INSTITUSI PENDIDIKAN
Penyelesaian teknologi dan latihan

SME & PERNIAGAAN
Penyelesaian mampu milik dan boleh skala

CHEMPAKASENSE

AI • IoT • ENGINEERING

ENGINEERING INTELLIGENCE FOR A SMARTER FUTURE

Bangkit Dengan Ilmu.

FOUNDER & CHIEF EXECUTIVE OFFICER

Ir. Mohd Hilmi bin Ishak

Corporate Strategy ◆ Engineering Leadership ◆ AI & IoT Innovation

Suzilawati Mamat

Chief Finance Officer (CFO)

Finance & Administration

- Financial Management
- Administrative Management
- Budget & Cost Control
- Corporate Documentation
- Operational Support

Ir. Ts. Dr. Hafizan Yosri

Engineering Partner

IoT & Systems Specialist

- IoT & Embedded Systems
- Edge Computing & Sensors
- System Architecture
- Engineering Integration
- Technical R&D Support

Zil Kamal Mokhtar

Engineering Partner

Technology Innovation

- Technology Strategy
- AI & Data Analytics
- System Architecture
- UAV / UAS & UTM
- R&D & Product Innovation
- Technical Advisory

Tn. Hj. Dzulkarnain @ Dzulkernain Hassan

Business Development

Strategic Industry Relations

- Business Development
- Industry Relations
- Strategic Partnerships
- Stakeholder Engagement
- Market Development
- Corporate Representation

OPERATIONAL UNITS

(Under CEO Coordination)

AI & SOFTWARE DEVELOPMENT



- AI solutions & analytics
- Software development
- Data platform & cloud
- System integration

IoT, AUTOMATION & EMBEDDED SYSTEMS



- IoT devices & sensors
- Embedded systems
- Automation solutions
- Edge computing & integration

ELECTRICAL POWER & ENGINEERING SOLUTIONS



- Electrical power systems
- Engineering design & solutions
- Monitoring & asset management
- Energy efficiency solutions

PROJECT DELIVERY & TECHNICAL SUPPORT



- Project management
- Installation & commissioning
- Technical support
- Maintenance & training

SALES, MARKETING & CUSTOMER SUPPORT



- Business development support
- Marketing & branding
- Customer engagement
- After-sales support

INDUSTRI YANG DISOKONG

Utiliti & TNB | Kilang & Industri | Bangunan Komersial | Hospital & Kesihatan | Hotel & Hospitaliti | Institusi Pendidikan | Kerajaan & Pihak Berkuasa | Komuniti & SME

RELIABLE Solutions | **PRACTICAL** Implementation | **CUSTOMER FOCUSED** Partnership | **SUSTAINABLE** Growth

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SUZILAWATI MAMAT

Chief Finance Officer (CFO) | Finance & Administration

- Financial Management
- Administrative Management
- Budget & Cost Control
- Corporate Documentation
- Operational Support

Responsible for financial management, administration and corporate support for ChempakaSense AI Services Sdn. Bhd. Ensures effective financial planning, budget control and smooth administrative operations to support the company's growth and sustainability.

> *Strong administration builds a stronger team for a smarter and more sustainable future.*

CORE EXPERTISE

- Financial Administration
- Budget & Cash Flow Monitoring
- Project Cost Tracking
- Payment & Expense Management
- Corporate Documentation
- Administrative Coordination
- Management Reporting

PROFESSIONAL BACKGROUND

- 2009 – 2010: Yamaha (M) Sdn. Bhd.
- 2011 – 2012: Supervisor Production
- 2013 – 2015: Sub-Con Audit, Esron Petroleum Pahang (Head of Production)

QUALIFICATION & MEMBERSHIP

- Sek. Men. Keb. Ulu Kinta (SPM)
- Diploma Kejuruteraan Mekanikal (Mekatronik) — PJB

KEY PROJECT FOCUS

FINANCIAL & BUDGET MANAGEMENT



- Financial planning
- Budget monitoring
- Cost control & reporting

ADMINISTRATIVE OPERATIONS



- Office administration
- Document management
- Corporate compliance

PROJECT COST TRACKING



- Project costing
- Expense monitoring
- Payment management

PROCUREMENT & SUPPORT



- Vendor coordination
- Procurement support
- Contract documentation

CORPORATE & TEAM SUPPORT



- Team administration
- Internal coordination
- Management support

INDUSTRI YANG DISOKONG

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IR. TS. DR. HAFIZAN YOSRI
Engineering Partner | IoT & Systems Specialist

- IoT & Embedded Systems
- Edge Computing & Sensors
- System Architecture
- Engineering Integration
- Technical R&D Support

Provides specialist engineering input on IoT architecture, embedded systems, edge computing and sensors. Supports ChempakaSense in delivering innovative and practical AI + IoT solutions for industrial, utility and community applications.

CORE EXPERTISE
- IoT and embedded system architecture
- Edge computing, sensors and data acquisition
- System architecture and design
- Engineering integration and technical R&D
- Industrial IoT applications
- System design and optimisation

PROFESSIONAL BACKGROUND
- Academic and industry experience in electrical, electronics and IoT systems
- Involved in research, development and implementation of industrial IoT solutions
- Collaborates with industry and government on smart monitoring and digitalisation projects
- Experience in system integration and technical consultancy

- Doctor of Philosophy (PhD)
- Master of Science (MSc)
- Bachelor of Engineering (B.Eng) (Electrical / Electronics / IoT related field)
- Professional Engineer (Ir.)
- Technologist (Ts.)
- Lecturer / Researcher / Industry Expert

FULL NAME : IR. TS. DR. HAFIZAN YOSRI

POSITION : Engineering Partner
IoT & Systems Specialist

EMAIL : hafizan@chempakasense.com

PHONE : +6019-597 8814

LOCATION : Malaysia

TYPE : Specialist / Advisor (On-call)

KEY PROJECT FOCUS

INDUSTRIAL IoT & CONDITION MONITORING

- Sensors & data acquisition
- Real-time monitoring
- Predictive maintenance

POWER & ENERGY SYSTEMS

- Asset monitoring
- Energy management
- Grid & distribution applications

AI & ANALYTICS INTEGRATION


- Data analysis & edge AI
- Intelligent decision support
- System integration

R&D AND TECHNICAL SUPPORT

- Prototype development
- Testing and optimisation
- Technical consultancy

INDUSTRIAL & UTILITY SOLUTIONS

- Smart monitoring systems
- IoT platform development
- Custom engineering solutions

INDUSTRI YANG DISOKONG

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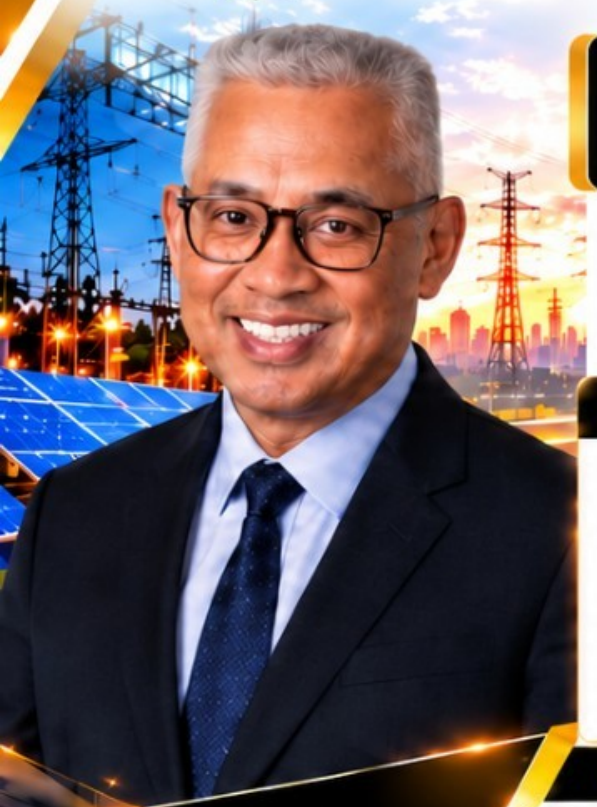
PENYELESAIAN YANG BOLEH DIPERCAYAI | **PELAKSANAAN** YANG PRAKTIKAL | **BERFOKUS** KEPADA PELANGGAN | **PERTUMBUHAN** YANG MAMPAN

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Bangkit Dengan Ilmu.



ZIL KAMAL MOKHTAR

Engineering Partner | Technology Innovation

Technology Strategy | AI & Data Analytics | System Architecture | UAV / UAS & UTM | R&D & Product Innovation | Technical Advisory

Aerospace engineer, technology strategist and digital transformation practitioner with 27+ years of multidisciplinary experience in aerospace, MRO, engineering, Lean Six Sigma, UAV/UAS, AI and digital technology. Provides strategic technology and architecture guidance to ChempakaSense.

> ***Technology and innovation drive smarter solutions for a more sustainable and resilient future.***

CORE EXPERTISE

- Technology & Digital Transformation
- AI & Data Analytics
- Solution / System Architecture
- Lean Six Sigma & Process Excellence
- Aerospace & Engineering
- UAV / UAS & UTM
- Innovation & Product Development

PROFESSIONAL BACKGROUND

- 27+ years of aerospace and engineering leadership experience
- Managed USD75M aerospace MRO portfolio
- Achieved 20% turnaround-time and 15% operating-cost reduction
- Delivered RM10M+ annual productivity savings
- Principal architect of PETRONAS Drone Centre
- Architect/developer of UAS Traffic Management platform
- Deputy President, Malaysia UAV Alliance (MUAA)
- Trained 500+ professionals

EDUCATION & PROFESSIONAL QUALIFICATIONS

- B.Eng (Hons), Aeronautical Engineering — Imperial College London
- Diploma of Associateship, Aeronautical Engineering — City & Guilds of London Institute
- Lean Six Sigma Black Belt
- ISO 9001:2015 Lead Auditor
- HRD Corp Accredited Trainer
- BEM Registered / Graduate Member
- ACE Process Excellence Practitioner

KEY PROJECT FOCUS



TECHNOLOGY & DIGITAL TRANSFORMATION

- AI and data analytics
- Digital platform development
- System architecture



UAV / UAS & UTM SOLUTIONS

- UAS traffic management
- Drone centre development
- UAV applications for industry



AEROSPACE & MRO SOLUTIONS

- MRO digitalisation
- Operational efficiency
- Process improvement



R&D AND PRODUCT INNOVATION

- Product development
- Engineering innovation
- Technology commercialisation



STRATEGIC ADVISORY & TECHNICAL SUPPORT

- Technology evaluation
- Design review & governance
- Technical mentoring

Bangkit Dengan Ilmu.

INDUSTRI YANG DISOKONG

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Bangkit Dengan Ilmu.



TN. HJ. DZULKARNAIN @ DZULKERNAIN HASSAN

Business Development | Strategic Industry Relations

Business Development · Industry Relations · Strategic Partnerships · Stakeholder Engagement · Market Development · Corporate Representation

An experienced professional in industry relations, organisational leadership, stakeholder engagement and strategic networking. Formerly involved in leadership roles associated with HRD Corp and K3P TNB, bringing valuable experience in industry engagement, workforce development and institutional relationships. Supports ChempakaSense in developing business opportunities, strategic partnerships and industry collaborations.

> *"Building strategic partnerships for a stronger, more connected industry ecosystem and a smarter, more sustainable future.*

CORE EXPERTISE

- Business Development
- Strategic Industry Relations
- Stakeholder Engagement
- Corporate Networking
- Industry Partnerships
- Workforce Development
- Institutional Collaboration
- Business Opportunity Development

PROFESSIONAL BACKGROUND

- Former Secretary-General — K3P TNB / KPPPTNB
- Former Board Member — HRD Corp
- Involved in trade union and industry relations (MTUC)
- Extensive experience in stakeholder engagement, organisational leadership and strategic networking
- Supporting industry collaboration and development initiatives across public and private sectors

KEY RESPONSIBILITIES

- Identify new business opportunities and projects
- Build strategic partnerships with companies, agencies and industry organisations
- Strengthen industry relations with utilities, industries and institutions
- Support customer engagement and early discussions with potential clients
- Assist in market development and expansion
- Represent the company in agreed business development activities

KEY PROJECT FOCUS

BUSINESS DEVELOPMENT & MARKET EXPANSION



- New business opportunities
- Market penetration
- Industry collaboration

STRATEGIC PARTNERSHIPS



- Corporate alliances
- Government & agency linkages
- Joint initiatives

INDUSTRY RELATIONS & STAKEHOLDER ENGAGEMENT



- Utilities & industrial sectors
- Institutional networking
- Stakeholder management

WORKFORCE & TALENT DEVELOPMENT



- Talent ecosystem
- Training collaboration
- Industry advocacy

CORPORATE REPRESENTATION



- Industry events & forums
- Business networking
- Strategic discussions

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INDUSTRI YANG DISOKONG

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OUR EXPERTISE

Gabungan AI, IoT dan Kejuruteraan untuk Menyelesaikan Cabaran Sebenar di Dunia Industri.

BY CAPABILITY
(What we deliver and how advanced it is)

From practical AI-enabled solutions today to more advanced capabilities for a smarter tomorrow.

Current Practical Services
(In use today)

- AI solutions for analytics and forecasting
- Anomaly detection and process automation
- AI Secretary for document management
- IoT monitoring and smart sensors
- Engineering design, monitoring and maintenance
- Integrated platforms from monitoring to action
- Technical support and training



Advanced / Future Capabilities
(In development and roadmap)

- More autonomous decision support
- Wider use of generative AI and agentic workflows
- Deeper industry-specific AI models
- Integration with advanced sensing and digital twins
- Continuous improvement through data and experience



BY FUNCTIONALITY
(How our solutions operate)

From monitoring and response, to predictive insights and decision support for better outcomes.

Monitoring & Reactive Response

- Real-time monitoring of assets and operations
- Detect abnormal conditions and alerts
- Response workflows and notifications



Predictive Analytics

- Analyse historical and real-time data
- Forecast trends and potential issues
- Predict equipment health and performance
- Support proactive maintenance



Decision Support & Human Collaboration

- Provide insights, recommendations and options
- Assist engineers and operators in decision making
- Use organisational knowledge and context
- AI Secretary to support documents, reports and communication



BY TECHNIQUE
(How our solutions are built)

A combination of proven technologies and modern AI techniques tailored for industrial use.

Rule-based / Expert Systems

- Engineering rules, standards and domain expertise
- Logic-based checks and diagnostics



Machine Learning (ML)

- Analytics and forecasting
- Anomaly detection
- Optimisation and process automation



Deep Learning

- Advanced pattern recognition
- Image and sensor data analysis
- Used for complex industrial data (e.g. thermal, visual)



Generative AI (AI Secretary)

- Document generation and summarisation
- Report drafting and knowledge management
- Chat-based assistant for technical queries



Agentic AI (Workflow Automation)

- Multi-step tasks using tools and data
- Automate workflows and reporting
- Integrate with systems and take action



IoT, Edge and Cloud Integration

- Smart sensors and meters (temperature, load, PQ, etc.)
- LoRa / 4G / RS485 communication
- Edge computing and cloud platform with dashboards



Engineering Systems and Integrated Solutions

- Design, consulting and implementation
- Asset monitoring and maintenance
- Smart SLD, digitalised schematics, electrical/mechanical/BMS
- Industry-specific solutions and custom projects



INDUSTRI YANG KAMI SOKONG

Utiliti & TNB | Kilang & Industri | Bangunan Komersial | Hospital & Kesihatan | Hotel & Hospitaliti | Institusi Pendidikan | Kerajaan & Pihak Berkuasa | Komuniti & SME

PENYELESAIAN YANG BOLEH DIPERCAYAI | **PELAKSANAAN** YANG PRAKTIKAL | **BERFOKUS** KEPADA PELANGGAN | **PERTUMBUHAN** YANG MAMPAN

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OUR PRODUCTS & SOLUTIONS

Penyelesaian AI, IoT dan Kejuruteraan untuk Industri, Utiliti dan Komuniti.

AI SECRETARY

Pembantu AI untuk Kerja Harian Lebih Cepat dan Efisien



- Chat, e-mel, dokumen, jadual & minit mesyuarat
- Integrasi sistem dan workflow organisasi
- Akses cloud dan on-premise

IRTS THERMAL

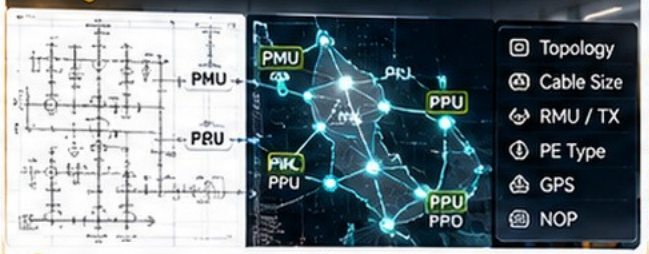
Pengesanan Awal Kerosakan Aset Elektrik



- Analisis imej thermal (HIKMICRO)
- AI condition assessment & trend analysis
- Laporan automatik dan integrasi WO

SMART SLD

Dari Lukisan ke Aset Digital



- Ekstrak SLD dengan AI (PDF, CAD, Image)
- Pengesanan komponen ≥90%
- Peta rangkaian, tracing & pengurusan aset

IoT PQ / EMS / CBM

Pemantauan Pintar Masa Nyata



- Sensor IoT (ESP32 + RS485 + LoRa/4G)
- 50Hz data, 10s averaging, abnormal alert
- Dashboard cloud, laporan & analisis AI

TAIP

Automasi Dokumen dan Proses



- Baca, klasifikasi dan ekstrak data dokumen
- Automasi borang, laporan & fail teknikal
- Integrasi dengan sistem organisasi

HARP ROBOTICS

Robotik untuk Industri dan Operasi Harian



- Reka bentuk dan pembangunan robotik
- Automasi tugas berulang dan berbahaya
- Integrasi AI, vision dan IoT

CHEMPAKA CODEX

AI Engineering Platform



- Platform pembangunan AI dan analitik
- Local LLM, vision, agent dan automation
- Untuk kejuruteraan, industri dan pendidikan

Dobi Zero Token AI & Merchant

Sistem Pembayaran dan Operasi Pintar



- Pembayaran tanpa tunai (Maybank2E / DuitNow)
- Operasi dobi, kedai makan, kelas & program
- Sistem pengurusan pelanggan dan token

INDUSTRI YANG KAMI SOKONG

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OUR PRODUCTS & SOLUTIONS – PART 2

Penyelesaian AI, IoT dan Kejuruteraan untuk Industri, Utiliti dan Komuniti.

BMS
Building Management System



- Monitoring & kawalan bangunan
- HVAC, lighting, energy & security
- Integrasi IoT & AI analytics
- Sesuai untuk komersial & industri

Energy Monitoring & Asset Management



- Pemantauan tenaga masa nyata
- Asset register & condition tracking
- Trend, laporan & AI analytics
- Integrasi dengan IoT dan sistem sedia ada

Engineering Consultancy & Design Services



- Reka bentuk & perundingan kejuruteraan
- Kajian teknikal dan feasibility
- Dokumen, pelan & spesifikasi
- Sokongan tender dan projek

Website & Email Solution



- Website korporat & sistem email
- Domain, hosting & cloud storage
- Keselamatan, backup & sokongan
- Sesuai untuk organisasi dan SME

Smart Homestay/ Stay Solution



- Sistem tempahan bilik/penginapan
- Check-in/out digital
- Pembayaran tanpa tunai
- Sesuai untuk homestay, hostel & chalet

Smart Logistics & Fleet Management



- Penjejakan kenderaan masa nyata
- Pengurusan armada & jadual
- Analisis perjalanan & kos operasi
- Sesuai untuk syarikat logistik & servis

Driving School Solution (Sekolah Memandu)



- Sistem pendaftaran & tempahan kelas
- Pengurusan pelajar, jadual & yuran
- Ujian, laporan dan sijil
- Sesuai untuk sekolah memandu

Tuition & Education Solution



- Kelas robotik, AI & STEM
- Modul pembelajaran digital
- Sistem pendaftaran & pembayaran
- Sesuai untuk pusat tuisyen & sekolah

Smart Merchant & POS Solution



- Sistem jualan, stok dan pelanggan
- Pembayaran tunai / DuitNow / kad
- Laporan jualan automatik
- Sesuai untuk kedai makan, runcit & servis

Integrated Platform & Reseller (Agent Solution)



- Platform bersepadu semua penyelesaian
- Akaun reseller & pengurusan agent
- Model perniagaan fleksibel
- Sokongan teknikal dan latihan

INDUSTRI YANG KAMI SOKONG

Utiliti & TNB | Kilang & Industri | Bangunan Komersial | Hospital & Kesihatan | Hotel & Hospitaliti | Institusi Pendidikan | Kerajaan & Pihak Berkuasa | Komuniti & SME

PENYELESAIAN YANG BOLEH DIPERCAYAI

PELAKSANAAN YANG PRAKTIKAL

BERFOKUS KEPADA PELANGGAN

PERTUMBUHAN YANG MAMPAN

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Bangkit Dengan Ilmu.

OUR PRODUCTS & SOLUTIONS – PART 3

Penyelesaian AI, IoT dan Kejuruteraan untuk Industri, Utiliti dan Komuniti.

Asset Management & Digital Twin



- Asset register & digital twin
- Riwayat, condition & trend
- Integrasi thermal, PQ, IoT & WO
- Sokongan TNB dan industri

Preventive & Predictive Maintenance



- AI condition assessment
- Jadual penyelenggaraan pintar
- Amaran awal kerosakan
- Laporan automatik & integrasi WO

Smart Energy Management & Demand Optimization



- Pantau penggunaan tenaga
- Analisis beban, tarif dan penjimatan
- Laporan untuk EECA 2024
- Sesuai untuk bangunan, industri & utiliti

Renewable Energy & Solar Solutions



- Reka bentuk & perundingan solar
- Pemantauan prestasi dan penjimatan
- Integrasi dengan EMS dan grid
- Sokongan O&M dan laporan ESG

Building Automation & Smart Building



- BMS, HVAC, lighting, access control
- DDC, sensor & IoT integration
- Energy monitoring & analytics
- Sesuai untuk komersial, hospital, hotel

Industrial Automation & Control System



- PLC, SCADA & HMI solution
- Reka bentuk panel & programming
- Integrasi dengan IoT dan AI
- Sesuai untuk industri dan utiliti

IoT Hardware & Sensor (Engineering)



- ESP32/RS485/4G/LoRa
- Meter, sensor suhu, PQ, RTU
- Reka bentuk dan pemasangan
- Data ke cloud dengan AI analytics

Network, Server & Cloud Infrastructure



- Penyediaan server, storage & backup
- Cloud, domain, email & security
- Tailscale / Cloudflare tunnel
- Sesuai untuk organisasi dan SME

Engineering Training & Technical Workshop



- Kelas AI, IoT, robotik, coding
- Latihan praktikal & projek sebenar
- Program sekolah, kolej & industri
- Modul khas mengikut keperluan

Maintenance, Support & Managed Service



- Sokongan teknikal dan penyelenggaraan
- Pemantauan jarak jauh 24/7
- Pakej bulanan mengikut keperluan
- SLA dan laporan berkala

INDUSTRI YANG KAMI SOKONG

Utiliti & TNB | Kilang & Industri | Bangunan Komersial | Hospital & Kesihatan | Hotel & Hospitaliti | Institusi Pendidikan | Kerajaan & Pihak Berkuasa | Komuniti & SME

PENYELESAIAN YANG BOLEH DIPERCAYAI | **PELAKSANAAN** YANG PRAKTIKAL | **BERFOKUS** KEPADA PELANGGAN | **PERTUMBUHAN** YANG MAMPAN

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CHEMPAKASENSE

AI • IoT • ENGINEERING

ENGINEERING INTELLIGENCE FOR A SMARTER FUTURE

Bangkit Dengan Ilmu.

OUR PRODUCTS & SOLUTIONS – PART 4

Penyelesaian AI, IoT dan Kejuruteraan untuk Industri, Utiliti dan Komuniti.

HOSPITAL & HEALTHCARE ENGINEERING SOLUTION



- Sistem elektrik, mekanikal & BMS
- Pemantauan tenaga & asset
- Kecekapan tenaga & keselamatan
- Sesuai untuk hospital & klinik

HOTEL & HOSPITALITY SOLUTION



- Sistem tempahan bilik & chalet
- Check-in/out digital
- Pembayaran tanpa tunai
- Integrasi IoT & energi management

GOVERNMENT & PUBLIC INFRASTRUCTURE



- Smart asset & facility management
- Pemantauan utiliti dan tenaga
- Analitik AI untuk operasi
- Sesuai untuk kerajaan & agensi

SMART CITY & COMMUNITY SOLUTION



- Pencahayaan pintar & sensor IoT
- Pemantauan persekitaran & utiliti
- Analitik data untuk bandar pintar
- Sesuai untuk PBT dan komuniti

ENVIRONMENT & WASTE MANAGEMENT



- Auto-detect smart bin (IoT)
- Pemantauan tahap, lokasi & kutipan
- Analitik AI untuk kecekapan operasi
- Sesuai untuk bandar & kawasan industri

AGRICULTURE & GREEN ENERGY



- IoT sensor untuk pertanian pintar
- Pemantauan suhu, kelembapan, air
- Sistem solar & tenaga boleh baharu
- Sesuai untuk ladang, greenhouse

INDUSTRIAL SAFETY & COMPLIANCE SOLUTION



- Sistem permit kerja & keselamatan
- Pemantauan peralatan & kawasan
- Laporan digital & audit trail
- Sesuai untuk industri & kilang

VEHICLE & FLEET MANAGEMENT



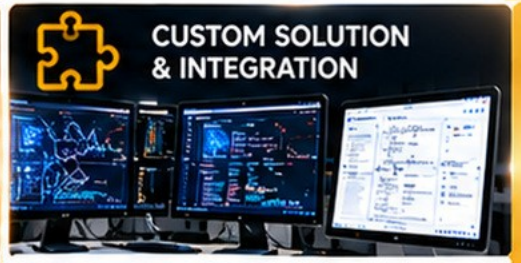
- Penjejakan kenderaan masa nyata
- Analisis laluan, bahan api & operasi
- Penyelenggaraan berjadual
- Sesuai untuk logistik, servis & utiliti

PAYMENT & FINANCIAL INTEGRATION (CHEMPAKAPAY)



- Integrasi Maybank2E Corporate API
- DuitNow, QR & resit automatik
- Untuk dobi, kedai, kelas, program
- Sistem token, keahlian dan collection

CUSTOM SOLUTION & INTEGRATION



- Pembangunan sistem mengikut keperluan
- Integrasi AI, IoT dan sistem sedia ada
- Perundingan, reka bentuk dan pelaksanaan
- Sesuai untuk semua industri

INDUSTRI YANG KAMI SOKONG

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OUR PRODUCTS & SOLUTIONS – PART 5

Penyelesaian AI, IoT dan Kejuruteraan untuk Industri, Utiliti dan Komuniti.

GIS & ASSET INTELLIGENCE



- Pemetaan aset & kokasi GPS
- Integrasi dengan Smart SLD
- Analitik spatial dan risiko
- Sokongan operasi & perancangan

AI VIDEO & IMAGE ANALYTICS



- Analisis imej & video
- Kesan anomali dan keselamatan
- AI untuk operasi, utiliti dan industri
- Integrasi dengan sistem sedia ada

DRONE INSPECTION SOLUTION



- Pemeriksaan talian, pencawang & aset
- Termal, visual dan AI analysis
- Kurang masa, lebih selamat
- Laporan digital dan integrasi sistem

3D PRINTING & RAPID PROTOTYPING



- Reka bentuk & cetak 3D komponen
- Prototyping untuk industri & pendidikan
- Custom jig, bracket, housing pan alat
- Sokongan R&D dan latihan teknikal

RESELLER DOMAIN, EMAIL & CLOUD



- Pendaftaran domain & hosting
- Emel korporat (10GB/user)
- Cloud storage & kerjasama pasukan
- Sesuai untuk perniagaan dan agensi

ENERGY AUDIT & EFFICIENCY (EECA 2024 SUPPORT)



- Audit tenaga & analisis penggunaan
- Laporan untuk pematuhan EECA 2024
- Cadangan penjimatan tenaga (ESG)
- Integrasi data dari IoT meter dan BMS

POWER QUALITY & ENERGY METER



- Meter PQ, tenaga & multimeter
- CT clamp & Rogowski coil
- Integrasi RS485 / LoRa / 4G
- Dashboard, trend dan laporan automatik

CABLE & EQUIPMENT MONITORING



- Pemantauan suhu kabel, RMU, TX, pillar
- Sensor RS485 / wireless
- AI condition assessment & trend
- Amaran awal dan integrasi WO

COMMUNITY & EVENT SOLUTION



- Pendaftaran program & kelas
- Pembayaran digital (DuitNow/Maybank)
- Sistem tiket, QR & kehadiran
- Sesuai untuk komuniti, sekolah & NGO

CUSTOM DEVELOPMENT & SYSTEM INTEGRATION



- Pembangunan sistem mengikut keperluan
- Integrasi AI, IoT dan automation
- API, database dan cloud infrastructure
- Sesuai untuk semua industri dan agensi

INDUSTRI YANG KAMI SOKONG

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WHAT CHALLENGES CAN WE SOLVE FOR YOU?

Cabaran anda, kepakaran dan teknologi kami.

"Setiap industri ada cabaran tersendiri. Kami sedia berbincang dan mencari penyelesaian yang sesuai untuk anda."

UTILITI & TNB



- Pemantauan aset & keadaan peralatan
- Pengesanan awal kerosakan
- Integrasi dengan sistem sedia ada
- Kecekapan operasi & pengurusan data

KILANG & INDUSTRI



- Kebolehpercayaan operasi (reliability)
- Condition monitoring & predictive maintenance
- Pengurangan downtime
- Integrasi data dan automasi proses

BANGUNAN KOMERSIAL



- BMS, HVAC, pencahayaan & tenaga
- Pemantauan penggunaan tenaga
- Keselesaan, keselamatan & kecekapan
- Automasi dan kawalan bersepadu

HOSPITAL & KESIHATAN



- Keselamatan dan kebolehpercayaan bekalan
- Pemantauan tenaga dan aset kritikal
- Sistem amaran awal dan laporan
- Integrasi dengan keperluan regulatori

HOTEL & HOSPITALITI



- Sistem bilik, akses dan kawalan pintar
- Kecekapan tenaga dan operasi
- Pengalaman tetamu yang lebih baik
- Penyelenggaraan berjadual dan automatik

KERAJAAN & PIHAK BERKUASA



- Pengurusan aset dan fasiliti
- Pematuhan kepada standard & regulasi
- Pemantauan utiliti dan tenaga
- Penyelesaian untuk bandar pintar

INSTITUSI PENDIDIKAN



- Makmal AI, IoT dan robotik
- Latihan praktikal & program bersama
- Penyelidikan dan inovasi teknologi
- Penyelesaian tenaga dan bangunan pintar

TENAGA BOLEH BAHARU & ALAM SEKITAR



- Pemantauan solar dan tenaga hijau
- Analisis prestasi dan penjimatan tenaga
- IoT untuk alam sekitar dan sisa
- Sokongan laporan ESG dan EECA 2024

KOMUNITI & PERNIAGAAN SME



- Digitalisasi operasi harian
- Sistem pembayaran dan token
- Pengurusan operasi dan pelanggan
- Penyelesaian yang berpatutan dan mudah

PENYELENGGARAAN & SOKONGAN TEKNIKAL



- Sokongan jarak jauh 24/7
- Pemantauan dan analisis berterusan
- Perkhidmatan penyelenggaraan berjadual
- Latihan teknikal dan pemindahan ilmu

KENAPA CHEMPAKASENSE?

- PENYELESAIAN YANG BOLEH DIPERCAYAI
- PELAKSANAAN YANG PRAKTIKAL
- TEKNOLOGI TERKINI (AI + IoT)
- BERFOKUS KEPADA PELANGGAN
- PERTUMBUHAN YANG MAMPAN

JOM BINCANG!

Sama ada cabaran anda tersenarai di sini atau tidak,
kami sedia mendengar, memahami dan mencadangkan penyelesaian yang terbaik.

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