

Darus Ishak

Senior Engineer, Digitalisation and Data Operations · Chemical engineer who builds plant software

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PROFILE

Eight years in process and plant engineering across palm oil processing, anaerobic digestion research, biogas plant projects and manufacturing, then four years building the software those plants run on. I design, build and run operations platforms end to end: data capture, SCADA pipelines, analytics, reporting and deployment. Founder of Ruji Labs, a product studio with eleven products in production.

EXPERIENCE

Senior Engineer, Digitalisation and Operations Oct 2022 to present
Renewable energy company, Malaysia

- Built the biogas operations platform for 24 plants at palm oil mills: live SCADA every 15 minutes, downtime, feedstock and procurement in one system.
- Cut monthly reporting from 6 hours to 10 minutes; the report is generated from logged data, reviewed and released in the platform.
- Built the solar operations platform for 138 commercial sites (38.22 MW): expected yield models, per-inverter checks, a satellite twin, alarms and work orders.
- Connected SCADA data directly to MySQL for live dashboards and fleet analytics used daily by operators and management.

Assistant Manager, Mill and Project Engineer Jun 2021 to Oct 2022
Oil palm manufacturing company, East Kalimantan

- Prepared case studies for power plants and biogas plants; designed chip factories and contributed to project planning.
- Data analysis for project optimisation.

Process Engineer Aug 2019 to Apr 2021
Technology manufacturing company, Kuching

- Led teams to quality targets and introduced new coating recipes; process improvements that reduced production time; safety procedures.

Project Engineer Jun 2018 to Jul 2019
Engineering consultancy, Kuala Lumpur

- Biogas plant planning and construction with clients and contractors; project design and technical documentation.

Research Assistant Oct 2017 to Mar 2018
International research institute, Turin, Italy

- Anaerobic digestion of food waste and olive mill wastewater; hydrogen and biomethane production; energy and mass balances.

Process Engineer Jan 2014 to Jul 2015
Agricultural processing company, Malaysia

- Daily process operations and product quality; safety committee, procedures and training.

OWN WORK

Ruji Labs (rujilabs.com). Product studio. Products in production include Berkira (accounting and e-invoicing), SemakCV, Conecta, NodeX, RSVP-Lah, WorkIt and e-Tempah.

SKILLS

Software: TypeScript, JavaScript, Python, SQL; Next.js, React, Node.js; MySQL, Prisma; Cloudflare, Docker, Linux, GitHub Actions

Domain: SCADA data, biogas and solar operations, renewable energy analytics, process engineering, automated reporting

EDUCATION

Bachelor of Chemical Engineering Technology (Process), Universiti Kuala Lumpur, MICET 2013
Pre-University Programme, Labuan Matriculation College 2007