

CANITA AISYA KOSTAMAN

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A Nanotechnology Engineering graduate with a strong foundation in analytical chemistry, laboratory testing, and pharmaceutical research and development. Experienced in sample preparation, analytical testing, formulation trials, stability evaluation, data analysis, and technical documentation through academic research and laboratory activities. Proficient in operating analytical instruments including UV-Vis Spectrophotometer, FTIR, Particle Size Analyzer (PSA), pH meter, and analytical balance, with familiarity in HPLC and other pharmaceutical analytical techniques. Familiar with Good Laboratory Practice (GLP), Good Manufacturing Practice (GMP), analytical method development and validation principles, and standardized laboratory procedures, with strong attention to accuracy, data integrity, and reliable documentation. Detail-oriented, analytical, disciplined, and adaptable, with strong problem-solving skills and a high willingness to learn and develop expertise in analytical development, method validation, stability testing, and pharmaceutical product development.

Work Experiences

PT Pertamina Bina Medika IHC – South Jakarta, Indonesia

Jun 2026 – now

Analyst Investment Intern at Corporate Planning and Investment

PT Pertamina Bina Medika IHC, also known as Indonesia Healthcare Corporation (IHC), is a state-owned healthcare holding company that manages and develops an integrated network of hospitals and healthcare services across Indonesia. The company focuses on strengthening healthcare business performance, expanding service capabilities, and supporting sustainable growth through strategic planning, investment, and business development initiatives.

- Assisted in reviewing and evaluating investment proposals across hospital units by assessing project scope, CAPEX requirements, operational assumptions, and key financial indicators to support investment decision-making.
- Consolidated, processed, and analyzed investment and operational data using Microsoft Excel, including Pivot Tables, lookup functions, conditional formatting, and structured data summaries.
- Developed 20+ executive-ready presentation decks using Think-Cell and Microsoft PowerPoint to communicate investment analyses, financial insights, project evaluations, and data-driven recommendations for management discussions.

BRIN (Badan Riset dan Inovasi Nasional) - South Tangerang, Indonesia

Jan 2024 – Feb 2024

Laboratory Analyst Intern at Fuel Cell Systems and Hydrogen Production

The National Research and Innovation Agency (BRIN) is Indonesia's leading government institution dedicated to advancing science, technology, and innovation. It focuses on interdisciplinary research, innovative technology development, and supporting national progress through strategic collaborations with academic, industrial, and international partner

- Disassembled 70+ used lithium-ion battery units to support the battery recycling preparation process.
- Performed manual separation of anode and cathode materials from 60 used lithium-ion battery units for material recovery.
- Conducted Brunauer–Emmett–Teller (BET) surface area characterization and data analysis on 2 material samples.

Education Level

Universitas Airlangga - Surabaya, Indonesia

Sep 2021 - Aug 2025

Bachelor of Engineering, 3.36/4.00

Innovation and Research Project

Researcher - Fabrication of Ethanol Extract Nanoparticles from Rice Husk Using Maceration- High Enegy Ultrasonication Method for Sheet Mask Essence Formulation

Aug 2024 - May 2025

Undergraduate Thesis

- Developed a cosmetic essence formulation containing ethanol extract nanoparticles from rice husk with antioxidant properties. Integrated the formulation into a sheet mask delivery system, achieving antioxidant IC₅₀ values of 33–40 ppm.

Concept Developer - Nanoemulsion Antibiofilm for Water Quality Improvement

Nov 2024 - Dec 2024

Student Innovation Poster Project

- Proposed a nanoemulsion-based antibiofilm formulation to control biofilm formation and microbial contamination in water. Presented the formulation strategy and potential applications in a scientific poster.

Concept Developer - Nourished Hair Protection From UV Light

Apr 2024 - May 2024

Student Innovation Poster Project

- Designed a conceptual UV-protective hair care formulation using halloysite nanotubes and keratin to enhance UV shielding and hair strength. Presented the nanotechnology-based protection strategy in a scientific poster

Concept Developer - Gold Nanorod@Curcumin for Photodynamic Therapy in Breast Adenocarcinoma

May 2023 - Jun 2023

Student Innovation Poster Project

- Designed AuNRs@Cur nanocomposite to enhance breast cancer treatment via synergistic photodynamic and photothermal therapy. Demonstrated the concept and results of AuNRs@Cur nanocomposite in a presentation.

Academic Laboratory Experiences

- Developed cosmetic formulations from natural ingredients using the solvent exchange method
- Formulated nanoemulsions from essential oils for potential cosmetic and edible film applications.
- Conducted hands-on experiments in nanomaterial synthesis and characterization, including the sol–gel process for silica nanoparticles, hydro/solvothermal synthesis for CZTS, and co-precipitation methods for iron nanoparticles.
- Performed green synthesis of silver nanoparticles (AgNP) and developed AgNP–alginate hydrogel.
- Gained foundational skills in biological sample preparation (blood smear technique) and microscopic analysis.
- Practiced fundamental size-reduction techniques using ball mill equipment in physical processing lab
- Applied characterization techniques such as UV-Vis spectroscopy, microscopy, and basic particle size analysis to evaluate materials.
- Performed antioxidant activity testing on natural ingredients using the DPPH assay method.

Organizational Experiences

SRE UNAIR (Society of Renewable Energy) - Surabaya, Indonesia

Human Resources Staff

Mar 2023 - Jun 2024

- Tracked attendance and performance of 45+ members, enhancing engagement and ensuring timely reporting
- Conducted monthly performances reviews and provided constructive feedback to improve productivity
- Maintained comprehensive administrative records for 7 committes, ensuring smooth coordination and effective communication

HIMANO UNAIR - Surabaya, Indonesia

Feb 2022 - Jan 2023

Public Relations Staff

- Managed communication between 35+ members and 7 internal partners, strengthening collaboration and event coordination.
- Promoted 8+ events through media platforms, increasing participant engagement by 35% and reaching 220+ audiences.
- Created and published 20+ promotional material to maintain consistent branding and audience engagement.

SAMBANG HUMAS (Public Relations Networking Event) - Surabaya, Indonesia

Nov 2022 - Des 2022

Event Staff

- Disassembled Coordinated communication and networking session with 4+ PR divisions form other FTMM associations.
- Organized event rundown and collaborated with 30+ participants, ensuring smooth program flow.
- Managed coordination meetings and prepared session materials, resulting in 100% on-time execution.

FULREN (Student Orientation of Nanotechnology Engineering) - Surabaya, Indonesia

Aug 2022 - Sep 2022

Mentor Staff

- Mentored 30+ new students during the department orientation program.
- Coordinated schedules and attendance, achieving 95% on time participation.
- Collaborated with 10+ mentors to organize activities and ensure clear communication.

Skills, Achievements & Other Experience

Hard Skills:

- Laboratory Skills: UV-Vis Spectrophotometer, FTIR, Particle Size Analyzer, AAS, Optical Microscope, Ball Milling, Antioxidant Assay (DPPH), Organoleptic Test, pH measurement, Ultrasonic High Energy; familiar with XRD, SEM-EDX, TEM, XPS, BET, HPLC and GC.
- Experienced in cosmetics formulation, nanoemulsion formulation, lithium-ion battery electrode recovery, sol-gel synthesis, hydrothermal/solvothermal synthesis, hydrogel preparation.
- Proficient in data processing, analysis, and visualization using Microsoft Excel, including Pivot Tables, lookup functions, COUNTIFS, conditional formatting, data cleaning, and structured data summaries,
- Experienced in preparing and reviewing investment-related corporate documents, including Final Investment Decision (FID) materials, investment monitoring reports, Decision Gate processes, approval authority thresholds, and investment governance documentation.
- Proficient in molecular modeling using Gaussian, Chimera, and PuTTY, with expertise in data analysis and visualization using Microsoft Excel and Origin.

Soft Skills:

- Strong communication, teamwork, leadership, time management, adaptability, problem solving, and attention to detail, analytical thinking, fast learning, responsibility, discipline, demonstrated in laboratory research, mentoring 30+ students, and managing events with 200+ participants.

Training and Certificates

- Good Laboratory Practices – Makin Ahli ([Certificate](#)), ISO 17025:2017 – Makin Ahli ([Certificate](#)), Good Manufacturing Practice in Pharmaceutical Industry - Teman Group ([Certificate](#)), Research and Development in Pharmaceutical Industry - Makin Ahli ([Certificate](#)), QAQC in Pharmacy Industry - Teman Group ([Certificate](#)), AAS Training – PT Sentral Lab Genetik ([Certificate](#)), Healthcare Regulatory (Obat dan Kosmetik) sesuai Peraturan BPOM – Ioda Academy ([Certificate](#))