

Fransisca Poppy Amelia

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Education

Sebelas Maret University

July 2020 - July 2023

Associate's degree of Chemical Engineering | [Link to all courses](#)

GPA: 3,68/4

Final Project: : Modification of NCA Cathode Material to NCAF with Al and Fe Doping from Fly Ash Waste

Experience

PT. Kilang Pertamina Internasional RU VI balongan

Feb 2023

Internship Unit DHC

- Internship at Atmospheric Hydrodemetallization Unit (ARHDM), is a unit that treats residue by reducing the metal content from the previous unit to become feed in the next unit
- Evaluated the performance of centrifugal pumps by taking into account their efficiency values

Center Of Excellent For Electrical Energy Storage Technology (PUI-PT)

July 2022 - August 2022

Internship Production

- Study how to synthesis NMC material cathode for Li-Ion Battery and make Li-Ion battery using manual machine and automatic machine
- Study how to test materials using SEM (Scanning Electron Microscopy) test equipment, FTIR (Fourier-transform infrared spectroscopy), AAS (Atomic Absorption Spectroscopy), and Charge-discharging battery

Projects

Technology for Processing and Utilizing Fly Ash Waste

Juny 2022 - Ongoing

Research Assistant

- Developing a new method for utilizing fly ash as a cathode material and anode material for high performance lithium ion batteries

Nickel Catalyst Waste Processing

August 2022 - July 2023

Research Assistant

- Developing a new method for utilizing waste into a photocatalyst for processing textile waste

Achievements

Funding in the student work week program by Belmawa Kemendikbudristek

Pengembangan Baterai Li-Ion dari Abu terbang Kapasitas Tinggi Menuju Net Zero Emission 2060

Journal and Publication

Regeneration of Spent Nickel Catalyst via Hydrometallurgical Method

Organizations and Volunteering

Kadika SV UNS

Feb 2022 - Dec 2022

Head of PnK Department

- Coordinating the implementation of work program activities in deparment, Responsible for all policies of the PnK De-
partment, and Develop a work program plan

Ecodays BSO HMTK UNS

Feb 2021 - Feb 2022

Staff of Secretary

- Manage, archive, and organize ECODAYS documents

Skills

Languages:

English, Indonesia

Technologies & Tools:

Autocad, Microsoft office, Mathlab, Origin Pro, SEM, FTIR, CDC, Uv-Vis