



Jasen Wijaya

Curriculum Vitae

Education

- 2020-today **Master of Material Engineering**, RWTH Aachen University
Specialized in Process Metallurgy and Metal Recycling (Non-ferrous metal)
- 2016-2019 **Bachelor of Metallurgy and Metal Forming**, University of Duisburg-Essen, GPA - 1.7
Specialized in Iron and Steel technology

Working Experience

- 2022 Part-time
MEAB Chemie Technik GmbH, Aachen
Research in the hydrometallurgical field
- ✓ Process engineer with interest area of leaching, solvent extraction, and ion exchange
 - ✓ Laboratory assistant
- 2019 Internship
SMS Group GmbH, Düsseldorf
Research and Development of Casting
- ✓ Crack examination of the steel slab samples by means of pulse nozzles
 - ✓ Sketching preparation of the test circuit diagram
- 2018 Laboratory Research Assistant
LyondellBasell GmbH, Cologne
Refinery facility of ethylene and butadiene
- ✓ Methodological analysis for fire and welding work
 - ✓ Environmental analysis and moisture analysis

Personal Experience

- 2021 Master Thesis
Process Metallurgy and Metal Recycling IME, Aachen
- ✓ Treatment of two fractions of pyrolysed and flotated Lithium-ion NMC battery system with double leaching step
 - ✓ Metal recovery by using conventional precipitation and solvent extraction unit operation
- 2021 Scientific Assistant
Process Metallurgy and Metal Recycling IME, Aachen
- ✓ Experiment of electrical conductivity with Linn-Oven
 - ✓ Battery binder pre-treatment with ultrasonic washing
- 2021 Seminar Work
Process Metallurgy and Metal Recycling IME, Aachen
- ✓ Evaluation concept of solid-state battery recycling
 - ✓ Process development of recycling routes for completely new solid battery system with the main focus of pyrometallurgy and hydrometallurgy area

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Curriculum Vitae

- 2019 Bachelor Thesis
Institute Technology of Metals ITM, Duisburg
- ✓ Investigation of the reaction layers of the melting cast iron under alloying element silicon carbide
 - ✓ Analysis by means of light microscope and scanning electron microscope

- 2017-2018 Student Assistant
Nanostructure Technology NST, Duisburg
- ✓ Tutor network analysis

Summary

I would describe myself as a goal-oriented person with extraordinary ambitions. Following my passion, I have experiences in the field of chemistry and material engineer. For me personally, the future prospects in the field of science and engineering are broad for both work and research purposes, where teamwork with the same vision is the most important. Therefore, I would like to be more involved in science and technology for society in the future.

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