

Arni Gesselle M. Pornea

Bachelor of Science in Chemical Engineering

Contact Information:

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CAREER OBJECTIVE

- ❖ To secure a cooperative education in the field of chemical engineering that will challenge and strengthen my education and professional skills.
- ❖ To be able to work in a company that will extend my knowledge and capabilities.
- ❖ To work for an organization that will provide me the opportunity to be a part of a team.
- ❖ To have a challenging position in the field of Chemical Engineering where I could apply my knowledge.

EDUCATIONAL BACKGROUND

Adamson University – 900 San Marcelino Street, Ermita, 1000 Manila
Philippines

- ❖ Bachelor of Science in Chemical Engineering
2007 – 2013

Myongji University – Myongji-ro Yongi-si, South Korea

- ❖ Masters in Energy Science and Technology
2017 – 2019

Myongji University – Myongji-ro Yongi-si, South Korea

- ❖ Phd in Energy Science and Technology
2019 – ongoing

Accomplishments

Ternary NiCoP urchin like 3D nanostructure supported on nickel foam as a catalyst for hydrogen generation of alkaline NaBH₄

Publication: Chemical Physics, 2019 (Impact Factor: 2.34)

Fabrication of multifunctional wax infused porous PVDF film with switchable temperature response surface and anti corrosion property

Publication: Journal of Industrial and Engineering Chemistry, 2020 (Impact Factor: 6.06)

Robust Janus nanocomposite membrane with opposing surface wettability for selective oil-water separation

Publication: Separation and Purification Technology, 2020 (Impact Factor: 7.31)

Design and synthesis of SiO₂/TiO₂/PDA functionalized phase change microcapsules for efficient solar-driven energy storage

Publication: Journal of Industrial and Engineering Chemistry, 2020 (Impact Factor: 9.71)

Hydrogen generation from catalytic hydrolysis of sodium borohydride by a Cu and Mo promoted Co catalyst

Publication: Journal of Industrial and Engineering Chemistry, 2020 (Impact Factor: 6.06)

Superior decontamination of toxic organic pollutants under solar light by reduced graphene oxide incorporated tetrapods-like Ag₃PO₄/MnFe₂O₄ hierarchical composites

Publication: Journal of Environmental Management, 2020 (Impact Factor: 6.79)

Sustainable fabrication of multifunctional dual-pore network aerogel composite material for broadband sound absorption, thermal insulation, and fire repellent application

Under Review: ACS Applied Materials & Interfaces, 2021 (Impact Factor: 9.23)

Design and synthesis of SiO₂/TiO₂/PDA functionalized phase change microcapsules for efficient solar-driven energy storage

Best Oral Presentation: KSIEC, 2021

EXPERIENCE/TRAINING

Basic Leadership Training

BusinessCoach, Inc. Quality Business Training

May 12, 2015

HGST a Western Digital Company (WD)

109 Technology Ave., SEPZ,

Laguna Technopark, Biñan Laguna

Responsibilities:

Assigned as an Improvement Engineer in Photolithography process, responsible on the trials and evaluation of any process change, such as new machine qualification, new process validation, any change in chemicals that is use in the process (e.g. EOL), process improvement projects to approach 6sigma process excellence.

October 2015 to Present

Black Water a Printing Company

Km 15, West Service Road, SSH,

1700 Parañaque City,Philippines

Responsibilities:

Assigned to Quality Assurance Department, which is responsible for the quality of the product from the start of the process till the end. At the same time assigned at Production Planning and Coordination Department, which is responsible for planning the schedule a specific product from start to finish and monitoring it at the same time.

September 2014 to October 2015

CHARACTER REFERENCE

❖ John Marc Puguan

Postdoc, Myongj University

jmpuguan@gmail.com

❖ Pablo Radillo

Unit Manager, TSE Improvement

HGST a Western Digital Company

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