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Zagy is a youth researcher working independently that research about technology, innovation, utilization, resource assessment, and education in renewable energy. Regarding his concern in education, he cares to help students to understand and do more in renewable energy through the society of renewable energy (SRE) and him as a founder. The organization successful expand to 34 universities in Indonesia. Currently, the field of research that he works are geothermal, solar PV, solar thermal, energy storage, innovations, and solutions. His short-term goal is to make his mark on Indonesia's country energy transition through tremendous strategy and on-target implementation.

## **EDUCATION**

Faculty of Mechanical and Aerospace Engineering. Mechanical Engineering, Insitut Teknologi Bandung

## **PUBLICATIONS**

- Preliminary Study: Greenhouse Optimization at Wayang Windu Geothermal Area (2021) Conceptual Model
- Update and Resource Assessment of Nage Geothermal Prospect in Flores Island (2021)
- Solar-geothermal hybrid system in Ulumbu (2020) Energy Trading to achieve Indonesia's Energy Mix Goal (2020)
- Hydrogen Storage by Utilize Excess Electricity from Solar Geothermal Hybrid System (2020)
- Solar Collector Field and Thermal Energy Storage for Auxiliary Component in Organic Rankine Cycle for Bottoming Unit to Utilize Exhaust Steam from Back Pressure Turbine of Ulumbu Geothermal Power Plant (2020)

## **HONORS & AWARDS**

- Best Paper Presenter in 9<sup>th</sup> ITB International Geothermal Workshop (2020)
- Best Paper Presenter in 5<sup>th</sup> Medan International Conference Energy and sustainability (2020)
- Ganesha Karsa ITB (2020)
- 2<sup>nd</sup> Place Hackathon of Jardines Know Your Data Know Your Customer Challenge at Hack. Asia Singapore (2019)
- Astra1st Batch 9 Scholarship Awardee (2020)
- Indonesia' Delegate in IRENA Youth Forum (2020)
- 1<sup>st</sup> Place of International Geothermal Study Case Competition (2020)

## **CORE COMPETENCIES**

Problem-solving, leadership, marketing, analytical thinking, writing, public speaking, writing, business development, negotiations, strategic planning, and risk management.

## **TECHNICAL EXPERTISE**

MS Office, Adobe Illustrator, Adobe Photoshop, RETScreenExpert, HOMER Pro, AspenHYSYS, and Aspen Plus.

## **VOLUNTEER EXPERIENCE**

Speakers in 10+ international events and 40+ national events, moderator 10++ national events, reviewer AstraxSRE competition, reviewer RMxIYSRE essay competitions, trainer in SRE incubation programs, and trainer at several organizational workshop.

## **WORK EXPERIENCE**

1. Society of Renewable Energy  
Founder (Mar 2019 – Present)

- Developed solar water pumping system for farmer in Garut with 1600 Wp installed capacity
- Developed small wind turbine in Garut with 300 Wp installed capacity
- Developed talent pool specific in energy sector for student and fresh graduate to find internship and jobs
- Won Indonesia World Records Museum (MURI) on August 2020 as "Renewable Energy Webinar with the Most Millennial Participants"
- Led 34 chairman of universities chapter to run SRE in their campus with total 2000 member in each batch
- Developed SRE Women for promoting gender equality
- Organized more than 200 events to increase renewable energy awareness in global and national scale
- Collaborated with 50 industries/institutions in global and national scale

2. PT Talenta Indonesia Mendunia  
CEO and Co-founder (Dec 2020 – Present)
  - Developed proctoring system for online learning to increase student integrity
  - Developed learning management system (LMS)
  - Developed plagiarism check for task submission
  - Provided online course learning in several sectors
  
3. Koperasi Astra International  
Business Consultant (August 2019 – March 2020)
  - Reinforced the Gondola Ancol by redesigning the corporate identity and business strategy
  - Planned annual event for Gondola Ancol
  - Improved customer services methodology with tailored promotions
  
4. PT Pertamina Drilling Services Indonesia  
Engineering Internship (June 2019 – July 2019)
  - Analyzed of mud properties effect, mud pump and solid control on hole cleaning efficiency at Well X
  - Developed a simple dashboard in excel to analyze the effects
  
5. Institut Teknologi Bandung  
Asisstant (May 2018 – March 2020)
  - Assistant Laboratory of Thermal Energy Conversion
  - Assistant Lecturer of an Introduction to Engineering Design 1&2
  - Academic Tutor of Strength Material
  - Academic Tutor of Static
  - Assistant Class of Geothermal Introduction

## **WORK EXPERIENCE**

1. SDG 7 UN MGCY  
East and Southeast Asia Regional Focal Point (July 2021 – Present)
  - Planned annual agenda such as research, community development, company visit, competition and etc solar water pumping system for farmer in Garut with 1600 Wp installed capacity
  - Developed small wind turbine in Garut with 300 Wp installed capacity
  
2. Road Safety  
Project Leader (April 2019 – August 2019)
  - Planned event to give knowledge and practice through workshop program for students.
  - Prepared and presented a progress report to Dean and Director of Education in Campus
  - Coordinated with media, campus, POLRI, and Jasa Raharja.
  - Managed 4 division during workshop to 4,000 freshmen.
  
3. Astralst Giving Back Session  
Project Leader (April 2020 – May 2020)
  - Provided Webinar Series included 5 episodes for 5,000 Indoensia's students in education sector during pandemic.
  - Led 45 persons in several divisions such as marketing, strategy, partnership, and human resource.
  - Accomplished IDR 55,000,000 to help people during pandemic.
  
4. Student Catalyst  
Mentor (September 2019 – December 2019)
  - Facilitated 50 students to help their problem during university life.
  - Built students with leadership and management skills.