



**PERSONAL  
INFORMATION**


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Sex Male | Date of birth 26/10/1990 | Nationality Indonesian

I am a Government Researcher (Mechanical Engineering) and highly interested in sustainable energy technology.

**ABOUT ME**
**WORK EXPERIENCE**

01/01/2018 - Present

**Researcher (Civil Servant)**

**Center for Metal and Machinery (BBLM)**, Ministry of Industry of the Republic of Indonesia (<https://kemenperin.go.id/upt>)

Responsibilities:

➤ **Undertaking research projects** concerning energy and machinery to enhance the industrial development of Indonesia.

Main projects, as a Lead Researcher:

- The implementation of heat treatment technology on the circular saw of the coffee and cocoa's tree-branch. Joint research between BBLM and the Indonesia Coffee and Cocoa Research Institute [2021];
- The energy monitoring system in the metal induction furnace uses the technology of the Internet of Things. Funded by the Indonesian Ministry of Industry [2019];
- Coffee grinder's energy usage improvement. Joint research between BBLM and the Indonesia Coffee and Cocoa Research Institute [2019].

Other projects, as a researcher:

- Salt Dryer's energy usage improvement for small salt producer association in West Java Province. Funded by the Indonesian Ministry of Industry [2020];
- Development of plastic wax for traditional clothes coloring material using pyrolysis machine. Funded by the Indonesian Ministry of Industry [2020];
- Development of medical devices using metal injection molding processing. Funded by the Indonesian Ministry of Industry [2018].

➤ **Conducting technical reviews and making recommendations** on the **Indonesia National Standard** and other matters as requested by the Ministry of Industry. **Then, educating these policies and regulations** to the industry.

Latest activities:

- Technical Expert to the machine grant program for the small industries of traditional medicine held by the Indonesian Ministry of Industry [2020];
- Technical Expert for elucidation program about the hoe's heat treatment processes to the small-medium industries as regards national regulation held by the Indonesian Ministry of Cooperatives and Small and Medium Enterprises [2020].

[Business or sector](#) R&D, Government

01/07/2013 – 15/01/2018

**The staff of the Planning, Maintenance & Reliability Department (Mechanical Engineer)**

**PT. Pupuk Kujang**, state-owned company (<https://www.pupuk-kujang.co.id/>)

Checked, repaired, and maintained all machinery in Ammonia, Urea, and Utility Plants to achieve better reliability, performance, and energy efficiency.

I had been assigned to three roles and one special task force:

- Reliability Engineer [April 2016 – December 2017];
- Inspection Engineer [February 2014 – April 2016];
- Field Maintenance Engineer [July 2013 – February 2014];
- Task Force: Key Person for Enterprise Resource Planning Project [2015 – 2016].

[Business or sector](#) Petrochemical and Fertilizer

28/05/2012 – 10/08/2012

**Facility Engineer (University Partnership Program ITB – Chevron)**

**Chevron Pacific Indonesia (CPI)**

(<https://indonesia.chevron.com/en/community/education-and-training>)

The work scope included analysing the gas pipeline's existing conditions in Sumatera Operations CPI, doing the simulation using software to change gas flow directions, and generating a design of the piping system in the CPI gas pipeline.

Business or sector Energy

**EDUCATION**

February 2023 – Present

**Master of Sustainable Energy**

**University of Queensland (Australia)**

<https://www.uq.edu.au/>

**Field of study:** Chemical Engineering

**Grade:** 6.25 of 7.00

August 2018 – April 2013

**Bachelor of Science (Sarjana Teknik)**

**Institut Teknologi Bandung (Indonesia)**

<https://www.itb.ac.id/>

**Field of study:** Mechanical Engineering

**Final grade:** 3.55 of 4.00

**Thesis:** Energy Audit and Energy Conservation Opportunity at Novotel Hotel Bandung

Principal subjects: Calculus, Physics, Engineering Thermodynamics, Fluid Mechanics, Heat Transfer, Manufacturing Processes, Mechanical Design, and Strength of Materials.

**PERSONAL SKILLS**

Mother tongue  
Other languages

Bahasa Indonesia

UNDERSTANDING

SPEAKING

WRITING

Listening

Reading

Spoken interaction

Spoken production

English

C1

C1

B2

B2

B2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Computer Skills

- CAD (technical drawing);
- Statistical software (SPSS);
- MatLab (Simulink).

Social skills

- Curiosity to learn new things;
- Adaptable person in new environments.

**ADDITIONAL INFORMATION**

Honours and awards

- Granted a fund for a research project about metal pouring temperature and energy monitoring system [2019];
- The 3<sup>rd</sup> Winner in Health, Safety, and Environment Competition Held by PT. Pupuk Kujang [2016];
- The 2<sup>nd</sup> Best Graduate with Cum Laude, Mechanical Engineering Undergraduate Program, in April 2013 commencement [2013];
- Awarded the scholarship from Karya Salemba Empat Foundation [2012];
- Member of ITB Team for the energy-efficient vehicles competition Shell Eco-marathon Asia [2012];
- Awarded the scholarships from Institut Teknologi Bandung [2009, 2011];
- Granted a fund for a research project in the Students Creativity Program [2010].

Publications

- *3D Modelling of Disc Refiner by Reverse Engineering in Supporting Import Substitution Policy*, Indonesia Journal of Mechanical Engineering, Vol 17 No 1, 86-91, 2022.
- *Optimization of Metal Pouring Monitoring System using Pyrometer based on IoT*, Journal of Engineering, 42(3), 299-308, 2021.
- *Metal Pouring Temperature and Energy Usage Monitoring System with IoT in MIDC*, National Journal of Electrical Engineering and Information Technology, Vol 9 No 2

page 123-131, 2020.

- *Energy Conservation Paradigm and Opportunity in The Commercial Building*, National Conference Proceeding of Hospitality Engineering, Vol 2 No 1, ISSN 2338 – 414X, 2014.

#### Memberships

- ASEAN Researchers Network on Energy and Climate Change [2021 – Present];
- Indonesian Renewable Energy Society [2020 – Present];
- Indonesian Researcher Union [2020 – Present];
- The Institution of Engineers Indonesia [2018 – Present].

#### Technical Seminars and Training

- The best participant in Industrial System I Training held by the Indonesian Ministry of Industry [2020];
- Participant in Maintenance of Steam Turbine & Centrifugal Compressor Training held by Mitsubishi Heavy Industries, Japan [2017].

#### Assistant Positions

During my ITB study, I assisted several Lecturers in conducting tutorial sessions at their classes and experimenting in the laboratories. I assisted 8-10 students in each session:

- Assistant of The Refrigeration Laboratory ITB [September 2012 – April 2013];
- Assistant of The Elementary Physic IIA Laboratory ITB [January 2012 – May 2012];
- Assistant of The Industrial Metrology Laboratory ITB [January 2012 – April 2012];
- Lecturer assistant in Strength of Materials [January 2011 – June 2011];
- Assistant of The Elementary Physic IA Laboratory ITB [August 2010 – December 2010];
- Lecturer assistant in Structural Statics [January 2010 – June 2010].

#### Organizational Activities

- Internal Division Staff at UQ Indonesian Student Association (PPIAUQ) [Present]  
Conducting internalisation event for all members
- Professionalism Division Staff at Mechanical Engineering ITB Alumni Association [Present];  
Conducting seminar sessions related to professional and working life for mechanical engineering ITB alumni.
- Volunteer at Youth Civil Servant Community [Present];  
Conduct tutorial sessions for civil servant candidates.
- Volunteer and Advisory Member at M'08 Foundation [2016 – Present];  
Responsible for recruiting and coaching the awardees of the M'08 foundation scholarships. This foundation was established in 2016 and had 10 awardees.
- Voluntary Teacher at Pupuk Kujang Foundation [2014 – 2017];  
Gave tutorials in various subjects such as mathematics, science, and English to elementary students (3 to 7 students each session).
- Voluntary Teacher at Bandung 1,000 Teachers [May 2017];  
Taught a class of elementary school students (40 students) in the rural area for 3 days.
- HRD Staff at Scholarship Alumni Community of KSE Foundation [2014 – 2016];  
Arranged and worked on developing the awardees' capability, such as career coaching, training, and seminar. The awardees are in 34 universities across Indonesia.
- Head of Professionalism Dep. at Mech. Eng. Students Association ITB [2011 - 2012];  
Arranged the programs to develop our members in technical aspects and coordinated with the staff (around 60 staff) in running these programs.

I hereby declare that the statements I have written above are true and correct to the best of my knowledge.

Brisbane, September 5<sup>th</sup> 2023



Anugrah Erick Eryantono