

Thoby Noorhalim

Engineer, Maker

Mechatronic engineer with strong interest in robotics and automation. Experienced in research and development of IoT product.

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Experiences

Mechatronic Engineer

March 2022 - Present

Invok Lasercraft, Banjarmasin, Indonesia

- Provide laser cutting (non-metal) & 3D printing service.
- Run day-to-day operations from machine maintenance to fulfilling customer orders.
- Consult customers with their project requirements, and produce 2D drawings and 3D models.

Industrial Engineer

February 2021 - April 2021

PT. Mattel Indonesia, Cikarang, Indonesia

- Prepared Labour Distribution Sheet (LDS) and calculate hours required to pack toys.
- Designed assembly line and tools required for toy (Barbie doll) packing-out process.
- Collaborated with other related departments to ensure a smooth and efficient packing-out process.

Embedded System Engineer

August 2019 - August 2020

Ishaan Informatics PTE. LTD. Jakarta, Indonesia

- Responsible for research and development of an IoT device.
- Produced multiple iterations of prototypes using CNC milling machine, hand tools, and soldering.
- Collaborated with upper management to outline detailed production plan and processes.

Relevant Projects

Flutter Application Development, Self Project

August 2021 - Present

- Develop mobile application to control ESP-based microcontrollers through WebSocket.
- Published three mobile applications to the play store.
- Regularly maintain and publish updates as new bugs are reported, and new features are added.

Development of luggage E-Tag, Ishaan Informatics

August 2019 - August 2020

- Designed electrical circuit and PCB of luggage E-Tag.
- Maintained the firmware of the E-Tag.
- Involved in the development of wireless charging and power harvesting circuit through NFC.
- Developed a detailed production and marketing plan for the E-Tag.

Education

UNSW Sydney, Australia

July 2014 - July 2018

School of Mechanical and Manufacturing Engineering

Major : Mechatronic Engineering (Honours)

Weighted Average Mark : 75.26 (3.44), Honours Class 2 Division 1

Academic Achievement:

- Received high distinction for Fundamental of Acoustics, Fluid Mechanics, and Robot Design courses.

Technical Skills

Software : Fusion360, EAGLE CAD.

Programming Language : C, C++, Dart (Flutter framework).

Hobby & Interests : Electronics Tinkering, 3D Printing, Home Automation (Home Assistant).

Language

English : Fluent

Bahasa Indonesia : Native

Portfolio

<https://thoby5n.github.io/>