

# Rayhan Alghifari Fauzta

rayfzt@gmail.com | linkedin.com/in/rayhanfauzta | github.com/rayfzt

## EDUCATION

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**Bachelor's degree, Computer Science**      **Institut Teknologi Bandung**      **Aug 2019 – Present**

- Relevant courses: Programming Fundamentals, Data Structures and Algorithm, Object Oriented Programming, Algorithm Strategies, Database, Software Engineering, Operating Systems.

## EXPERIENCES

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**VTOL Team Leader**      **Aksantara ITB**      **Jan 2021 - Present**

- Explored the use of Robotic Operating System (ROS) for autonomous control in quadcopters.
- Object detection, color recognition, and QR code scanning using OpenCV.
- Working on integrating ROS framework with Realsense T265 tracking camera for indoor quadcopter navigation.

**UAV Mapping & Monitoring Engineer**      **Aksantara ITB**      **Mar 2020 - Oct 2020**

- Designed and implemented wiring diagram for aerial monitoring components.
- Reduced the numbers of camera needed in the aircraft from 2 to 1, effectively lessening cost and weight.
- Awarded best team of the month in April 2020.

**Project Exploration Intern**      **Kabinet KM ITB**      **Sep 2019 - Jan 2020**

- Surveyed various locations around ITB to identify potential site for community development programs.
- Gave ideas and feedback for public space revitalization project in Tamansari.
- Held a discussion with Achmad Zaky to exchange ideas regarding his proposed startup incubation program for students, now already realized in the form of VC fund called Init-6.

## ACHIEVEMENTS

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- **Bronze Medal, National Science Olympiad (OSN) 2017.** Top 25 among 75 participants in Geography. Selected to attend National Training Camp for International Geography Olympiad in Québec City, Canada.
  - **2<sup>nd</sup> place Kontes Robot Terbang Indonesia (KRTI), 2020.** Part of ITB Aksantavirya Fixed Wing team. We designed and built fixed-wing aircraft for aerial mapping and monitoring purposes coupled with payload dropping capabilities. Achieved second place among 22 participants.
  - **Participant, Shopee Code League 2020.** 8-week data science competition organized by Shopee on an international scale. Competitions include product detection, title translation, logistics, sentiment analysis, marketing analytics, and programming contest.

## VOLUNTEERING

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- **Freelance Tutor.** Taught geography for high school students to prepare them for competitions, namely National Science Olympiad (OSN).

## TECHNOLOGIES

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- Python, C++, Java, C, HTML, CSS, JavaScript, PHP, C#, MySQL/MariaDB.

## TRAINING & CERTIFICATES

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- Neural Networks & Deep Learning (Coursera & DeepLearning.AI), issued Sep 2020