

# Bright Christian Kusuma

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Aspiring electrical engineer with experiences in leadership and problem-solving skills. Possess expertise in solving automation technology problems for future mobility. Excel in C, C++, and R.

## EDUCATION

### BANDUNG INSTITUTE OF TECHNOLOGY (ITB)

*Undergraduate Sophomore, Major in Electrical Engineering*

**Bandung, Indonesia**

August 2021 – Present

- **Current GPA:** 2.98 / 4.0
- **Relevant Coursework:** Digital Signals and Systems, Embedded Systems, Microelectronics, Internet of Things, Instrumentation Technology
- **Lab Assistant of** Laboratorium Fisika Dasar ITB
- **Assistant Lecturer of** Dr. Ary Setijadi Prihatmanto, S.T, M.T.
- **Programming Team Manager of** Dagozilla ITB (ITB's Omni Wheel Football-Robotic Team)
- **General Secretary of** IEEE ITB Student Branch, Nautika ITB Diving Club, and Aikido Dojo ITB
- **Elected President 2024/2025 of** HME ITB (Electrical Engineering Student Association)
- **2<sup>nd</sup> author of** Research Paper titled "Analysis of Power Consumption for Electrical Motor on Automatic Micro Electric Vehicle (MEVi)" published in ICAMIMIA 2023

### PETRA 1 SENIOR HIGH SURABAYA

*Department of Mathematics and Natural Science*

**Surabaya, Indonesia**

July 2018 – May 2021

- **Score:** 92 / 100
- **5<sup>th</sup> winner of** Indonesian Robotic Olympiad 2018
- **Indonesian Representative for** World Robotic Olympiad Thailand 2018

## WORKING EXPERIENCE

### BADAN RISET DAN INOVASI NASIONAL

*Research Assistant*

**Bandung, Indonesia**

July 2023 – August 2023

- Working as an intern in Pusat Riset Mekatronika Cerdas (Smart Mechatronics Research Center)
- Assigned for the electrical control system of BRIN's 'MEVi' electric vehicle, contributed in 'Autonomous Driving' feature development
- Utilizing Teensy 3.5 and Arduino Nano for speed control and drive modes, GPS M8N, Arduino Nicla Sense as compass, 2D LiDAR for obstacle detection, cameras for machine learning-based object recognition, and Nvidia JETSON AGX Xavier for waypoint navigation processing
- Actively contributing in a research paper titled "Analysis of Power Consumption for Electrical Motor on Automatic Micro Electric Vehicle (MEVi)" as the 2nd author. The paper was successfully published in International Conference on Advanced Mechatronics, Intelligent Manufacture, and Industrial Automation (ICAMIMIA) 2023

## SKILLS, ACTIVITIES & INTERESTS

**Languages:** Fluent in English, Indonesian, Javanese; Proficient in Chinese (HSK 5)

**Technical Skills:** Python, R, C, C++, VHDL for FPGA, Assembly

### Certifications & Training:

- HarvardX "Data Science: Machine Learning"
- Capture The Flag Bootcamp HMIF Tech 2022
- "Sekolah URO" Programming Division 2022
- Google Developer Student Clubs Institut Teknologi Bandung 2021-2022 Chapter