

# HANIF EDMA FAUZ

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Currently serving as a research assistant, contributing to academic research in the field of electrical and information engineering while pursuing a master's degree. Experienced in electrical engineering, control engineering, IT operations, and robotic engineering. Dedicated to advancing engineering solutions and fostering technological innovation.

## EDUCATION LEVEL

**Seoul National University of Science and Technology (SEOULTECH)** Seoul, South Korea  
*Master of Electrical and Information Engineering, 4.19/4.50* Feb 2024 – Aug 2026 (Expected)

- Focus: Control engineering studies and its implementation to robotic
- Recipient of SEOULTECH scholarship
- Research assistant

**Universitas Indonesia** Depok, Indonesia  
*Bachelor of Electrical Engineering, 3.61/4.00* Aug 2019 – Aug 2023

- Focus: Control engineering studies

## WORK EXPERIENCES

**Control & Intelligent Robotics Lab SEOULTECH (CIRL SEOULTECH)** Seoul, South Korea  
*Research Assistant* Feb 2024 – Present

- Developed a novel control framework and published findings in a Q1 international journal
- Assisted professor with various academic activities

**Train4best Indonesia** Jakarta, Indonesia  
*IoT Platform Trainer* Sep 2023 – Oct 2023

- Invited as a trainer to teach on Internet of Things (IoT) platforms, spanning an 8-day event held at Politeknik Elektronika Negeri Surabaya (PENS).
- Delivered comprehensive training on Internet of Things (IoT) platforms to 10 vocational lecturers.

**Universitas Indonesia** Depok, Indonesia  
*Research Assistant* Jan 2023 – Jun 2023

- Collaborated on a 3-year research project with PT NSAD Riset Pengembangan Teknologi and PT INKA.
- Implemented an Adaptive Extended Kalman Filter (AEKF) State of Charge (SoC) estimation algorithm for hybrid train battery systems.

**DoctorTool (PT Medifa Infoyasa Suryantara)** Jakarta, Indonesia  
*IoT Engineer Intern* Feb 2022 – Jul 2022

- Developed IoT medical devices to enhance measurement activities at posyandu, integrating various medical apparatus.
- Engineered connectivity for over six categories of devices, such as thermometers, oximeters, and other biometric sensors.

## SKILLS, AWARDS & OTHER EXPERIENCE

- **Skills:** Electrical engineering, control engineering, IT, robotic engineering
- **Programmings & Softwares:** MATLAB, Python, C, ROS (Robot Operating System), Linux, Git, Docker, Web Development (HTML, CSS, JavaScript), Flutter, LaTeX, Microsoft Office
- **Hardwares & IoT Devices:** Arduino, ESP32, Raspberry Pi, NVIDIA Jetson
- **Publications:** [Performance Enhanced Risk-Aware MPPI Using Gaussian Process for Robust Mobile Robot Control](#) (SCI Paper - IEEE Access, 2025)
- **Awards:** 1st Champion in The Topic of Corrosion Detection Using Computer Vision at SciHackfest 2023 (Hackathon, 2023)
- **Languages:** Bahasa Indonesia (native), English (IELTS Academic Band 7.0, 2023)