



# Muhammad Hafid Alkarim

Research | IOT and  
Electromedic Engineers

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- [github.com/hfdalkarim](https://github.com/hfdalkarim)

## Summary

I am an electromedical student with competent skills in the field of medical electronics. I have 1.5 year of experience as a research assistant for a lecturer. as well as taking part in electromedical competitions and several skills courses in the IT field. I work on many electronics projects and IoT systems for medical device applications

## Work experience

### Mahasiswa

2021-01 – present

Institut Teknologi Sains dan Kesehatan PKU Muhammadiyah Surakarta, Surakarta, ID

(3 tahun 5 bulan)

Surakarta, Jawa Tengah, Indonesia

Under Graduate

IPK = 3.83

### Electromedical technician intern

2024-01 – 2024-09

RSUD Dr. Moewardi, Surakarta, ID

Jawa Tengah, Indonesia

Praktek Kerja Lapangan 1 Mahasiswa D4 Elektromedis ITSPKU

Muhammadiyah Surakarta. Dengan 4 divisi: Non Medik, Administrasi, Intensif, Non Intensif

### Research Assistant Lecturer

2023-02 – 2024-01

Universitas Muhammadiyah Yogyakarta, Yogyakarta, ID

(1 tahun 7 bulan)

Yogyakarta, Indonesia

Asisten Dosen Elektro UMY dan untuk mengajar Mata Kuliah Sistem Kendali di kampus ITSPKU Muhammadiyah Surakarta

### Peserta

2023-01 – 2023-12

Program Kreativitas Mahasiswa (PKM) Tahun 2023

Juli 2023 – Desember 2023 (6 bulan)

Indonesia

Kategori PKM-KI dengan judul "Termometer non contact dengan fitur mengambil gambar dan hand sanitizer kabut berbasis ESP32"

### Departemen Teknologi dan Informasi

2022-01 – 2023-01

HIMATEMI ITSPKU Muhammadiyah Surakarta, Surakarta, ID

(1 tahun 1 bulan)  
Surakarta, Jawa Tengah, Indonesia  
Departemen bidang Teknologi dan Informasi Pada organisasi

## Peserta Lomba PKP2 ke-1 PTMA

2023-01 - 2023-12

PUSPRESMA PTMA

Juli 2023 (1 bulan)  
Indonesia

## Peserta

2023-01 - 2023-12

Pekan Elektromedik Nasional 2023, Jakarta, ID

Selatan, Jakarta Raya, Indonesia

Dengan judul "Termometer noncontact dengan fitur mengambil gambar dan hand sanitizer kabut berbasis IOT"

## Skills

Maintenance and Repair  
Medical Device



Server Host and Storage



Web Development



IOT



Arduino ESP Raspberry PI



## Certifications

- Peserta Lomba PKP2 ke-1 PTMA
- Network Fundamental
- INTERNET OF THINGS
- (PKM) 2023
- Sertifikat PRADIK PKL RSUD Dr.Moewardi
- Pelatihan Developer IOT Pemula
- Complete Ethical Hacking Bootcamp
- Linux Fundamental
- Python Fundamental
- Peserta EIC 2023

## Publications

- THERMOMETER NON-CONTACT DENGAN FITUR MENGAMBIL GAMBAR DAN HANDSANITIZER KABUT BERBASIS ESP32

