

CURRICULUM VITAE

Personal Identity

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|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Full Name (with title) | Laily Asna Safira, S.T.,M.T. |
| Staff ID Number | 1999202312061 |
| National Lecture Identification Number | |
| Functional Position | |
| Structural Position | |
| Date of Birth | Salatiga, 20 Februari 1999 |
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Education Background

| | Bachelor's | Master's | Doctorate |
|----------------|-------------------------------------|-------------------------------------|-----------|
| College Name | Institut Teknologi Sepuluh Nopember | Institut Teknologi Sepuluh Nopember | |
| Field of Study | Biomedical Engineering | Electrical Engineering | |
| Year | 2017 | 2021 | |

Research Field

- Exoskeleton for Rehabilitation
- Control for Rehabilitation Purpose

Master Thesis : "Kontrol Adaptif pada Eksoskeleton Bahu-Siku untuk Tujuan Rehabilitasi "

Undergraduate Thesis : "Desain Sistem Kontrol Wireless untuk Elbow Exoskeleton pada Rehabilitasi Fleksi-Ekstensi Pasien Pasca Stroke"

Oral Publication / Conference

| No. | Year | Research | Conference / Seminar |
|-----|------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 1 | 2023 | Adaptive PID Controller Based on Sliding Surface for Controlling Elbow Joint Robot Rehabilitation | 24th International Seminar on Intelligent Technology and Its Applicatons (ISITIA) 2023 |
| 2 | 2023 | Sliding Mode Approach to Design Adaptive Control Scheme for an Exoskeleton Robot Rehabilitation for Upper Limb Movement Restoration | 6th Joint Lab Seminar on Rehabilitation Engineering and Assistive Technology ITS-Tohoku University |

| No. | Year | Research | Conference / Seminar |
|-----|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| 3 | 2022 | Control of Exoskeleton for Rehabilitation of Elbow Joint Movements | 1st Joint Lab Seminar on Rehabilitation Engineering and Assistive Technology ITS-Tohoku University |
| 4 | 2022 | Design of Elbow Exoskeleton with Wireless System Control for Post Stroke Flexion-Extension Rehabilitation | Joint Workshop for Global Engineers in Asia 2022, |
| 5 | 2022 | Design of Elbow Exoskeleton with Wireless System Control for Post Stroke Flexion-Extension Rehabilitation | 2021 4th International Conference on Bio-Engineering for Smart Technologies (BioSMART), |
| 6 | 2019 | CLAY (Charging in Optimal Way) Optimasi Charging Kendaraan Listrik Berdasarkan Estimasi Aliran Daya dan Kondisi Beban pada Charging Station Kendaraan Listrik Menggunakan Fuzzy Logic Controller | Seminar Nasional FORTEI Regional VII-2 (SINARFE 7-2) |

Research Experience

| Year | Title |
|-------|-------------------------------------------------------------------------------------------------------------------------|
| 2022 | Research Oriented Incoming Student (ROIS) intake Fall Semester on Health and Sport Laboratory, Tohoku University, Japan |
| 20201 | Ventilator Indonesia, Industrial Automation Laboratory TELiMEK LIPI |

Training

| No. | Year | Subject | Intitution |
|-----|------|-----------------|----------------------|
| 1. | 2021 | Cloud Computing | MBKM Bangkit Program |