Muhammad Fathi Fadlian

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EDUCATION

Electrical Engineering
Universitas Indonesia

06/2015 - 06/2019 *3.42*

Courses

- Data Acquisition of X-Plane's Aircraft Through Matlab for Neural Network based Identification System (KICS Fall Conference 2019, Unpublished)
- Improvement of linear distillation column control performance using fuzzy self-tuning PI controller (The 4th International Tropical Renewable Energy Conference 2019, Unpublished)
- Robotics
- Mechatronics
- Knowledge Based System
- Electric Drive Control System
- Process Control System
- Microprocessor and Microcontroller

EXPERIENCE

Wireless Planning Technical Engineer
PT ZTE Indonesia

10/2019 - Present *Jakarta, Indonesia*

Telecommunication Equipment Provider

Achievements/Tasks

- Plan the wireless coverage and capacity
- Build Machine Learning program for wireless planning

Applications and System Engineer Intern
National Instruments Indonesia

06/2018 - 08/2018 *Jakarta, Indonesia*

Achievements/Tasks

- Developed myArm, arm robot for educational purposes

Lab Assistant
Control Laboratory Universitas Indonesia

01/2018 - 12/2018 *Depok, Indonesia*

Lab Assistant/Trainer
P2M - Mechanical Engineering Dept UI - Level III Telecommunication Shipping Training

11/2018 - 12/2018 *Depok, Indonesia*

ORGANIZATIONS

UI Robotics Team (2015 - 2018)
Programmer

Electrical Engineering Dept Student Board (2016 - 2017)
Staff and Expert Staff in Science and Tech Division

SKILLS

Critical Thinking | Leadership | Team Work | Project Management | Python | C | LabVIEW | Machine Learning | Electrical Circuit Design | Arduino | Matlab | PLC | MS Office | HTML | CSS

PROJECTS

Direct Inverse Control of Pressure Process Rig Using Artificial Neural Network (2019)

- Knowledge Based System Final Project.
- Used MatLab as main program.
- Data retrieved from real PPR device and trained by Artificial Neural Networks model to regress/predict the system's behavior and how the controller should behave.

Fuzzy Self-Tune PI Control for Distillation column (2018)

- Paper proposed for International Process Control Competition (IPCC) and International IEEE Conference in Bali (T-REC).
- Used a non-conventional method to tune PI Controller's constant in real-time.
- Honored as 2nd Place for International Process Control Competition.
- The paper will be published shortly in IEEE.

MyArm-Arm Robotic (2018)

- National Instruments Intern Project
- Used meArm as basic mechanical design and myRIO as controller
- Designed as affordable as possible without losing its functionalities for educational purposes

ACHIEVEMENTS

Outstanding Individual - ZTE 2019 Rising Star Onboarding Program (2019)
Outstanding individual from ZTE Rising Star Training in ZTE University, Shenzhen, China

2nd Place - International Process Control Competition (2018)
PID Tuning competition for Multi-Variable System, Developed Fuzzy Self-Tuning PID Method, Surabaya, Indonesia

Digital Talent Scholarship (07/2019 - 08/2019)
A scholarship from Indonesia's Ministry of Communication and Information Technology. 2 Months of intensive Artificial Intelligence course, Depok, Indonesia

2nd Place - Regional 2 Indonesia Robotics Contest (2016)
As Programmer, Design and Operate Robots to finish specific tasks (KRAI Division), Bandung, Indonesia

Last 8 - National Indonesia Robotics Contest (2016)
As Programmer, Design and Operate Robots to finish specific tasks (KRAI Division), Surabaya, Indonesia