



## MUHAMMAD RIFQY FADHILLA

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28<sup>th</sup> of September, 1997

Male

Indonesia

## EDUCATION HISTORY

**South Tangerang State High School 2**

**Natural Science**

2012 – 2015

Final Average Mark : 8.67 / 10.00

**Diponegoro University**

**Bachelor of Mechanical Engineering 2015 - 2019**

Final Cumulative GPA : 3.59 / 4.00

## COMMUNICATION

Bahasa Indonesia

English

TOEFL Score : 580

## SKILLS

Microsoft Office

Solidworks

Ansys

CorelDRAW

Sony Vegas

## INTERESTS

Mechanical Engineering • Mechanical Design •  
Material Science and Engineering

## WORK EXPERIENCE

### INTERN at PT. INDONESIA POWER

January 2018 – February 2018

- Analyzing reliability of power plant unit of Lontar Coal-Fired Power Plant, Banten.
- Analyzing which components are least reliable in the power plant unit.
- Determining preventive maintenance interval for said components.

### PRODUCT ENGINEER at PT. BUMI CAHAYA UNGGUL

February 2020 -

- Selecting suitable pump type and model, spare parts, repair and service action based on customer's need.
- Calculating cost & profit and determining selling price on Quotation.
- Proposing Technical and Commercial Quotation based on customer's need.

Successful Projects include :

- Sump Pump Package for Jawa 9 & 10 Coal Fired Power Plant Project
- Overhaul of Solid Paste Pump for PT. Freeport Indonesia
- Repair of Centrifugal Pump units for PT Pertamina RU II Dumai
- etc.

## ORGANIZATIONAL EXPERIENCE

### MECHANICAL ENGINEERING STUDENTS ASSOCIATION

#### Secretary of Research and Technology Division

January 2017 – December 2017

- Assisting Head of Research and Technology Division in coordinating and assisting Research and Technology clubs, i.e. Aeromodelling, Robotics, and Rocketry, in research and development and entering competition
- Acting as Liaison between Head of Research and Technology Division and Person In Charge of each clubs
- Supervise the operation of "Research and Technology Wall Magazine".

### MECHANICAL ENGINEERING STUDENTS ASSOCIATION

#### Head of Research and Technology Division

January 2018 – December 2018

- Coordinating activities of Research and Technology clubs, i.e. Aeromodelling, Robotics, and Rocketry.
- Optimizing research, development, and performance of Research and Technology clubs.
- Assisting Research and Technology clubs to enter and prepare for competitions.

## HONOURS AND AWARDS

### AI-JAM Japan 2019

#### Gold Medallist

8<sup>th</sup> of December 2019

Awarded for designing Astakara, a low-cost bionic hand powered using solar cell and fitted with Force Sensitive Resistors (FSR) to move its fingers. The FSR detects contraction on user's lower arm muscle as an input, then the input is processed by Arduino to determine how far the fingers will move.

## SEMINAR AND TRAINING

### MECHANICAL ENGINEERING'S PRE-BASIC TRAINING ON STUDENT'S MANAGEMENT SKILLS 2015

10<sup>th</sup> – 11<sup>th</sup> of October 2015

- Self-potential and time management skills.
- Critical and out-of-the-box thinking.
- Public speaking, lobbying, and assembly.

### TRAINING ON RISK BASED INSPECTION AND ENGINEERING MEASUREMENT

April 2016

- Basics of statistics in reliability engineering, reliability-based and risk-based maintenance.
- Case study and Demonstrations of reliability-based and risk-based maintenance.

### SOLIDWORK BASICS TRAINING

October 2017

- Introduction to SolidWork CAD software and user interface
- Basics of part drawing features.
- Drawing part assembly.

### SOLIDWORK ADVANCED TRAINING

September 2018

- Advanced part drawing features.
- Surface drawing.
- SolidWorks Simulation.