

# PORTFOLIO

Raychan Abyqa Fahriza

July 11, 2022

# Raychan Abyqa Fahriza

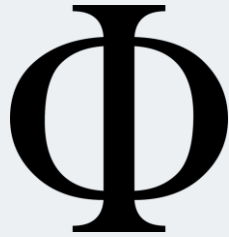
Mechanical and Electrical Design Engineer | AutoCAD, Solidworks, ANSYS, EAGLE



## Description

I am a dedicated scientist who is willing to take on new challenges. So far, I've been able to lead several activities and research teams on campus, and I also have experience in engineering design, such as mechanical and electrical design. I also have extensive experience with engineering design applications such as AutoCAD, Solidworks, ANSYS, Autodesk EAGLE, and Proteus, which has greatly aided me in problem solving. I also attended MechTech Indonesia's engineering design bootcamp, which included 75+ hours of classes and interactive discussions, as well as work on 30 real-world projects.

# EDUCATION



## Recent Education

I am a physics fresh graduate from Institut Teknologi Sepuluh Nopember. This branch of science assists me in analyzing physical events that occur in both real life and in the form of engineering design. Furthermore, I have research experience in the field of electric vehicles, which helps me solve engineering problems.



## MechTech Indonesia

Studying software engineers (AutoCAD, SolidWorks, and ANSYS) end-to-end for 75+ hours with various expert mentors, beginning with fundamentals, Computer-Aided Design, and Computer-Aided Engineering, and working on more than 30 project-based assignments and receiving official SolidWorks "Weldments" and "Sheet Metal" certificates.

# EXPERIENCE

## **(Anargya ITS EV Team / Tractive System Engineer)**

1 Year 2 Months (December 2019 – January 2021)

- Designing and manufacturing tractive systems for the ANARGYA Mark 2.0 Formula EV based on regulation.
- Used critical thinking to break down problems, evaluate solutions and make decisions related to ANARGYA Mark 2.0 Formula EV tractive systems design.

1

## **(Cakradewa ITS Team / Electric Motor Engineer)**

1 Year 6 Months (July 2018 – December 2019)

- Designing and manufacturing 8 electric motors for use in electric vehicles Go-kart.
- Identified issues, analyzed information and provide solutions related to the electric motor.
- Awarded as Best Design and Presentation with Cakradewa ITS Team at Indonesian Electric Car Competition 2019.

2

## **(Anargya ITS EV Team / Electrical Manager)**

1 Year 1 Month (January 2021 – January 2022)

- Scheduled, sequenced, and controlled all electrical system work on the ANARGYA Mark 2.0 Formula EV in accordance with regulations for maximum efficiency.
- Monitor, manage, train and supervise a team of 29 engineers
- ANARGYA Mark 2.0 Formula EV construction delays were avoided by efficiently completing all site inspections and performing duties in accordance with all applicable standards and regulatory guidelines to promote a safe working environment.
- Achieved 8 Best Engineering Design with ANARGYA ITS EV Team at FSEV Concept Challenge Formula Bharat 2021.

3

# Skills & Tools Proficiency

## Computer-Aided Design

 **AUTOCAD**

 **SOLIDWORKS**

## Computer-Aided Engineering

 **Ansys**

# Anargya EV Mark 2.0



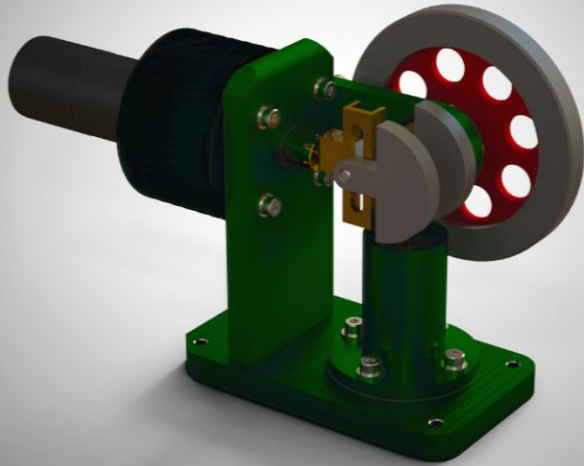
## Objective

Creating electric-powered formula cars that can compete in FSAE Japan international competitions

## Action

- Create a low-voltage and high-voltage electrical system, then make it into 3D design
- Built using Solidworks

# Horizontal Stirling Engine



## Objective

Built for practice

## Action

Built using Solidworks

# Platform



## Objective

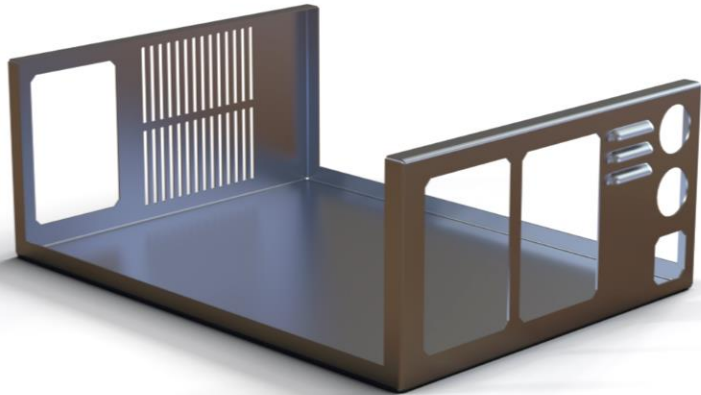
Built for practice

## Action

Built using Solidworks



# CPU Box



## Objective

Built for practice

## Action

Built using Solidworks

# Toolbox



## Objective

Built for practice

## Action

Built using Solidworks

# Thank you!

Let's Connect and Discuss More

**Email**

raychanabyqafariza@gmail.com

**LinkedIn**

[linkedin.com/in/abyqafahriza/](https://www.linkedin.com/in/abyqafahriza/)

**Phone Number**

+62 85163065810