

# PORTFOLIO

Raychan Abyqa Fahriza

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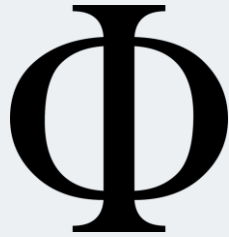
**Mechanical and Electrical Design Engineer | AutoCAD, Solidworks, ANSYS, EAGLE**



## 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 student at the Sepuluh Nopember Institute of Technology. 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 electric power systems on Formula EV based on regulation
- Manufacturing electric power systems according to design
- Used critical thinking to break down problems, evaluate solutions and make decisions related to Formula EV tractive systems or electric power systems.

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

1 Year 6 Months (July 2018 – December 2019)

- Designing electric motor to use in electric Go-kart
- Manufacturing electric motor according to design
- Identified issues, analyzed information and provide solutions related to electric motor.

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

1 Year 1 Month (January 2021 – January 2022)

- Controlling every work related to the electrical system on the Formula EV based on regulations
- Determined project schedule, including sequencing all construction activities for optimal efficiency.
- Monitored, coached and supervised a team of twenty nine Engineer in 2021.

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# Skills & Tools Proficiency

## Computer-Aided Design

 **AUTOCAD**

 **SOLIDWORKS**

## Computer-Aided Engineering

 **Ansys**

# Anargya EV Mark 2.0



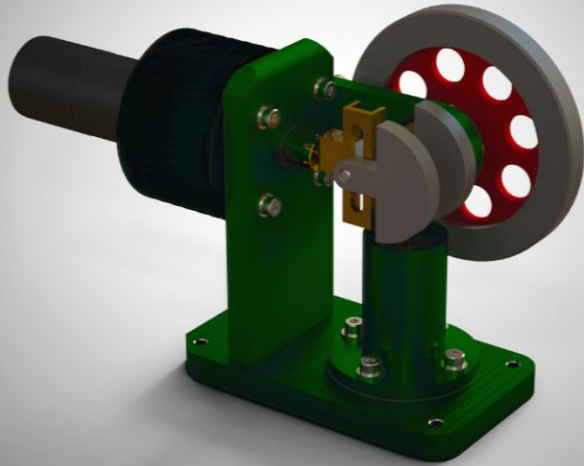
## Objective

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

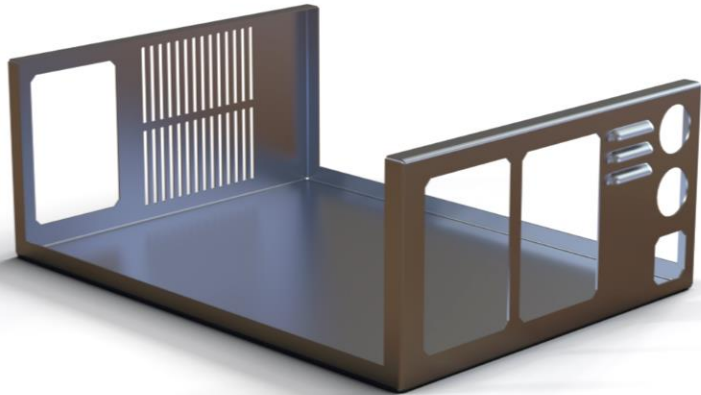
Built for practice

## 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

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