

Yossief Chanyalew Mekonnen

MECHANICAL ENGINEER | MACHINE LEARNING ENGINEER

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Addis Ababa, Ethiopia, 1000

EDUCATION & CERTIFICATIONS

Bachelor of Science in Mechanical Engineering

Institution: Addis Ababa University

Graduation: July 13, 2022

- Honors Graduate
- Final CGPA 3.67/4.0
- Best Thesis Winner, BSc Competition 2022
- Awardee | POSCO Fellowship 2019 and 2020

Machine Learning Specialization

Institution: Stanford online

Completed: Feb 15, 2024

SKILLS

Programming Skill

Python / C++ / Matlab / Java script / Machine Learning Algorithms / Data analysis / Arduino

Software

SolidWorks / Auto CAD / Ansys / Proteus Electrical Circuit Simulation

Engineering

2D and 3D modeling / Mechanical Design / CNC Expert / Automation Engineer / Structural Engineer

PROFESSIONAL EXPERIENCE

Vector 4 Engineering

October 2024 to Present

Machine Design and 3D modeling

- Designed and manufacture CNC machines, engraving machines for precision manufacturing
- Design and manufacturing on CNC drawing machine projects for automated sketching.
- Designed manufactured and operated 3D printers for prototyping and mold also some rare parts.
- Developed self-balancing robots with control algorithms.
- Designed and built a filament-making machine and a fiber-making machine to recycle plastic bottles

BLEC Engineering

Feb 2024 to July 2024

Research Assistance

- Experience in research assistance, including data collection, organization, analysis, and documentation for feasibility studies.
- Proficient in statistical analysis, data visualization, and predictive modeling using machine learning.
- Skilled in extracting insights and making data-driven recommendations.

Prodigy InfoTech (India)

Jan 2024 to Feb 2024

Machine Learning Intern

- Linear Regression Model for House Price Prediction
- K-Means Clustering Algorithm for Customer Segmentation
- Implement a support vector machine (SVM) to classify images of cats and dogs from the Kaggle dataset
- Develop a hand gesture recognition model that accurately identify and classify different hand gestures

SHEMU Group

May 2023 to Jan 2024

Research and Development Assistance

- Design 2D and 3D models using SolidWorks for manufacturing and assembly Electrical Vehicles (EV).
- Prepare a bill of materials and purchase materials from Amazon/Alibaba/Aliexpress.
- Develop a Car dashboard with Python, PyQt5, and Raspberry Pi.
- Participate in EV prototype manufacturing and conducted testing.
- Design and manufacture HHO generator for improved vehicle performance.
- Prepare a bill of materials, assemble, and test the generator. Install components and test Prepare and Present a patent document.

Operational Excellence Data Analyst

- Analyze downtime and production operations, improving efficiency.
- Collect and analyze data, identifying patterns for improvement.
- Develop system for data visualization using Google Data Studio.

MEMBER**Ethiopian Space Science Society****Apr 2020**

It is a non-profitable organization constitute of members from Astronomy, Astrophysics, Space Science and technology, and the related field of professionals as well as individual

VOLUNTEER**Renovating Dilapidated houses****Jul 2021**

Participated in renovating the dilapidated houses of senior citizens

Niber Foundation**Nov 2023**

This is a community initiative to help support and empower the war-torn community.

AWARD**Winner of the final thesis computation organized by SMIE 2022, Addis Ababa University****Apr 2023**

Addis Ababa Institute of Technology, AAU

Great Distinction**Jul 2022**

Addis Ababa Institute of Technology, AAU

Recognition of outstanding scholastic achievement and dedication to knowledge at AAIT

POSCO Africa fellowship 2020

Oct 2020

POSCO Africa fellowship 2019

Dec 2019**CERTIFICATE****Google IT Automation with Python Professional Certificate**

- Crush course on python
- Using Python to Interact with the Operating System
- Introduction to Git and GitHub
- Troubleshooting and Debugging Techniques
- Configuration Management and the Cloud
- Automating Real-World Tasks with Python

Stanford University Online

- Supervised Machine Learning: Regression and Classification
- Advanced Learning Algorithms
- Unsupervised Learning, Recommenders, Reinforcement Learning

Prodigy info Tech (India)

- One month Internship from 15th January, 2024 to 15th February, 2024 in Machine Learning

REFERENCES

MS. Tewedaj sileshi

Lecturer and Postgraduate leader

Addis Ababa University

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