

Eyob Ghebreiesus

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Chicago, IL, 60613

Joint B.Sc. & M.Sc. in Aerospace Engineering



LinkedIn



GitHub



Handshake

CORE COMPETENCIES

Project Managing, Vibrations, Fluid Mechanics, Flight Mechanics, Aerostructures, Materials, Additive Manufacturing, Systems Engineering, Aerodynamics, Spacecraft Dynamics, Rhinoceros, Solidworks, Flow control, ImageJ, XFLR, , Data Science, Machine Learning, CFD, Simulink, Component Analysis and Design, C++, Java, Php, Python, Tinkercad, Artificial Intelligence, NLP, TensorFlow, CISCO certified License CCNA, CNTK, PyTorch, GitHub, MATLAB

EDUCATION

Illinois Institute of Technology – Chicago, IL.

Graduating in May 2023

Masters in Mechanical and Aerospace Engineering.

Illinois Institute of Technology – Chicago, IL.

Graduating in May 2023

Bachelors in Aerospace Engineering.

Illinois Institute of Technology – Chicago, IL.

May 2022

Minor in Artificial Intelligence.

PROFESSIONAL WORK EXPERIENCE

AIAA Illinois Tech - DBF Chief Engineer

Sep 2019 to Present

- **DBF Lead & Vice President:** As the DBF lead and vice president I manage all the sub-teams, handle all communications, and responsibility between the AIAA exec board and Design Build Fly needs.
- **Aerodynamics Team Lead:** Analyze, design, and fabricate the main wing and tail of RC planes for the annual AIAA DBF competition. I use various tools like XFLR5, Simulink, and Python for selecting airfoils and determining the sizing, trade studies and aerodynamic properties of the plane.
- **Manufacturing & Structures Lead:** I design & CNC the wing, Laser cut carbon fiber fuselage & all controls.

Illinois Institute of Technology – Chicago, IL

May 2021 to Sep 2021

Additive Manufacturing Internship

- Managed a team of 4 colleagues analyzing Ti-64 defects and porosity formation using ImageJ and Python.
- Focus of research: Laser Powder Bed Fusion of Titanium-64 Alloy, Inconel-718 and Stainless Steel.
- Completed laser 3D printing, XRD Analysis, EBSD, Microscopy and published a paper on ScienceDirect.

Environmental Eco Solutions – Schaumburg, IL

July 2019 to May 2020

Project Manager

- Led a team of solutions architect and chain specialist to install and maintain HVAC systems, additionally complete EPA Property Rehabilitation, and oversight licensing
- Prepare project plans and maintaining the plans to see if the considered agile-model is properly followed

C.E. Niehoff & Co – Evanston, IL

May 2017 to September 2017

Engineering Internship

- Coordinated all aspects of production, manufacturing methods, fabrication, and operation of car components.
- Performed electrical hardware testing for several different brushless alternators.

Other IIT Organization's– Chicago, IL

Fall 2020 to Present

- **SCARLET SPACEHAWKS:** Software Team, responsible for Pathfinding and Navigation system of the rover.
- **SED IIT:** Avionics Team, handles Electrical circuitry and autonomy of the rocket.

ADDITIONAL WORK & VOLUNTEER EXPERIENCE

Teaching Assistant: *Calculus MATH-148* Illinois Institute of Technology since 2021.

Covid-19 Virus Project: Built a data chart that tracks the number of COVID-19 cases using six-degree polynomial across the state of Illinois and the US from Dec 2019 to May 2020.

Volunteer: Tutoring college level subjects including Calc I II III, Physics I II III, DefEq, and Coding

Honors: Phi Theta Kappa Honor Society | Tau Beta Pi Engineering Honor | CCC Presidential Scholar | IIT Dean's List