

KALKIDAN GEBRU

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EDUCATION

Bachelor of Science in Mechanical Engineering, Addis Ababa University
Cumulative GPA: 3.66/4.0

October 2021

SKILLS

Programming Languages	C++, Python, Matlab
Software	Solidwork, CAD, Ansys, QGIS
Other	MS power point, Ms word, LaTeX
Language	English, Amharic

PROJECTS

B.Sc Thesis-design and manufacturing of Automated Diamond Wire Machine

- Performed mathematical analysis in design of the machine
- Utilized Ansys simulation to test analysis and functionality
- Wrote Matlab code to design the control of the machine
- Prepared 2D drawings and 3D models using solidworks for manufacturing

Boiler Design

- Performed thermal and design analysis using finite element analysis method
- Prepared specification and drawing for manufacturing
- Wrote a technical report on Latex showing the general outcome

WORK HISTORY

Industry Project Services

March 2022 - Present

Junior Consultant

- Carried out feasibility and pre-feasibility study on factories
- Prepared the plant layout on Autocad, engaged in selection of plant machinery, utility devices, raw material and location according to careful analysis
- Assisted in the installation, testing and commissioning of the plant machinery

Ethiopian Airlines

March 2019 - July 2019

Intern

- Performed Aircraft systems Engineering
- Worked on aircraft structures along with the maintenance repair and overhaul using different techniques such as thermal spray, plasma spraying, vacuum furnace heat treatment.
- Inspected the interior and exterior parts, disassembled and performed repair and replacement of aircraft engine components.

HONORS AND AWARDS

- Completion in Great Distinction at Addis Ababa University October 9,2021
- Outstanding Women performer in Science Technology Engineering and Mathematics Sept 2017
- Best B.Sc Thesis in School of Mechanical and Industrial Engineering of 2021-1st Place September 21,2021

TRAINING AND CERTIFICATE

Coursera

- Machine Design Part I -Georgia Institute of Technology.
- Python for Everybody- University of Michigan
- Flight Mechanics- ISAE-SUPAERO
- Mastering Programming with MATLAB-Vanderbilt University
- Finite Element Analysis-University of Michigan

edx

- Aerospace Structure and Materials-Delft x
- Python For Researchers- Harvard x

Other

- Certificate of drone and data level 1(CDDT1)-African Drone Academy
- Trusted Operator Program (TOP) Level 1-Association for unmanned vehicle systems International

LEADERSHIP EXPERIENCE

Ethiopian Space Science Society-(*Active Member*) Aug 2017-present

- Took seminars and training on astronomy, space Science and underlying technology
- recruited young members from university and high school

Ethiopian Female students Association-(*Public relations*) Spet 2016- Oct 2021

- Helped female students with academic difficulties
- Communicated with departments to facilitate academic effectiveness and ensure practice of affirmative action

Beteyesus Evangelical church-(*Volunteer Teacher*) Jun 2018-Aug 2018

- Taught STEM underprivileged high school senior students
- Introduced and provided study materials for international exams