**Allan Otwori**

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**PROFILE**

Innovative Mechanical Engineer with expertise in mechanical design and analysis. Proficient in advanced CAD techniques using SOLIDWORKS, Autodesk Inventor, and AutoCAD, specializing in Geometric Dimensioning & Tolerancing (GD&T), and adept at Design for Experimentation and Manufacturing for machined and fabricated assemblies. Highly skilled in using Ansys for finite element analysis, complemented by proficiency in Python for advanced Ansys scripting, and in MATLAB and Simulink for enhanced engineering analysis and simulation capabilities. Familiar with CNC, lathe machines, and 3D printing technologies.

**EDUCATION**

**Bachelor of Science in Mechanical Engineering** June, 2023

Jomo Kenyatta University of Agriculture and Technology

**Kenya Certificate of Secondary Education** December, 2016

Tarang’anya High School

**Kenya Certificate of Primary Education** December, 2012  
Eronge Primary School

**SKILLS**

* SOLIDWORKS
* AutoCAD
* Computer-Aided Design (CAD)
* Engineering Drawings
* Geometric Dimensioning & Tolerancing (GD&T)
* Mechanical Engineering
* Design for Manufacturing
* Attention to Detail
* Information Modelling
* Technical Documentation

**WORK EXPERIENCE**

**Kenya Space Agency, Industrial Attachment** February, 2022 – June, 2023

*Structures and Thermal Subsystem Team Member*

* Actively Participated in the design of a 3U nanosatellite using SOLIDWORKS, adhering to CubeSat Design Specification Rev. 14.1.
* Conducted structural analyses using Ansys to ensure satellite integrity against launch loads and harsh space conditions.
* Collaborated in a multidisciplinary team, focusing on innovative design solutions.

**GIANCHOREE Tea Factory, Industrial Attachment** February, 2021 – April, 2021

*Mechanical Engineer Attaché*

* Utilized SOLIDWORKS for the design and development of steel structures, enhancing fabrication and welding techniques.
* Performed corrective and preventive maintenance on mechanical systems, applying principles of mechanical engineering for optimal system efficiency and reliability.