

# ELIAS CHARLES TUMAINI

## BACHELOR DEGREE IN MECHANICAL ENG.

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📍 DAR ES SALAAM

📅 1999/01/27

🚩 TANZANIA

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### Education

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2020 – 2024  
DAR ES SALAAM,  
TANZANIA

**MECHANICAL ENGINEERING**  
*DAR ES SALAAM INSTITUTE OF TECHNOLOGY-DIT*

### Professional Experience

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2021/08 – 2021/11  
Arusha, Tanzania

**Mechanical Engineering Intern / Trainee**  
*TANZANIA ENGINEERING AND MANUFACTURING DESIGN ORGANIZATION-TEMDO*

- Assisted in the design, analysis, and optimization of mechanical systems.
- Conducted hands-on tasks such as assembly, testing, and troubleshooting of mechanical components
- Supported senior engineers in preparing technical reports, project documentation, and presentations
- Applied safety and quality standards in compliance with industry regulations.
- Collaborated with cross-functional teams on projects to improve operational efficiency.

2022/08 – 2022/10  
Dar es salaam, Tanzania

**Workshop Technician with maintenance team.**  
*TANZANIA PORT AUTHORITY-TPA*

- Familiarity maintenance practices, and mechanical testing.
- Safety ensuring of the equipments.
- Working with Professionals in specifying, documenting and implementing.
- Participated in the inspection and testing of mechanical systems to ensure compliance with safety and operational standards.
- Conducted routine preventive maintenance tasks to minimize equipment downtime and improve efficiency.
- Gained hands-on experience with hydraulic, pneumatic, and mechanical systems commonly used in port operations

2023/08 – 2023/11  
Arusha, Tanzania

**CAD DESIGN**  
*TANZANIA ENGINEERING AND MANUFACTURING DESIGN ORGANIZATION-TEMDO*

- Solidworks design and machine simulation
- Data management
- Autocad 2D drawing and editing
- CNC practical trainee
- Proficient in CAD software: AutoCAD, SolidWorks.
- Familiarity with manufacturing processes, maintenance practices, and mechanical testing.

2024/06 – 2024/07

## ROBOTICS DESIGN PROJECT

Dar es salaam, Tanzania

DAR ES SALAAM INSTITUTE OF TECHNOLOGY

- Robot design and coding,
- writing programming language C++
- Design mathematics and kinematics.

## Skills

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**MICROSOFT EXCEL**



**COMMUNICATION**



**SOLVING PROBLEMS**



**MICROSOFT WORD**



**COMPUTER**

using computer effectively.



**DATA ENTRY**



**SOLIDWORKS**



**AUTOCAD**



**Welding and manufacturing.**

- Welding
- Design of machine and repair
- machine checking
- machine powering and control



**Public social integration.**

- Good relationship
- politely
- Good in communications.
- High expression level.



**Manufacturing and design.**

Proficient in CAD software: AutoCAD, SolidWorks.

- Basic knowledge of FEA and CFD software: MATLAB.
- Familiarity with manufacturing processes, maintenance practices, and mechanical testing.
- Understanding of industry safety standards and best practices.



## References

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**HAPPY HENRY ARIKA**, *Senior Operations officer*, TANZANIA PORTS AUTHORITY-TPA

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**Emmanuel rlyimo**, *Mechanical Engineer*, Dar es salaam institute of technology-DIT

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**Inyanya Ndeya**, *Mechanical Engineer*, TANESCO, ubungu

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## Languages

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• English

• Swahili

## Projects

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2024

**Design and manufacturing of organic waste shredder**

To simplify decomposition of organic waste and making organic manure for agriculture growth.