

PROCHES MKAWE

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EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science

Master of Science in Mechanical Engineering

Relevant Coursework: Electronics packaging and Manufacturing, Fluid Dynamics, Analytical methods *May 2026*

Dar es salaam Institute of Technology, Dar es salaam, Tanzania Department of Mechanical Engineering

Bachelor of Engineering in Mechanical Engineering 3.5/5.0

Dec 2022

Relevant Coursework: Thermodynamics, Fluid Mechanics, Mechanical Vibrations, Robotics, Heat Transfer, CAD

TECHNICAL SKILLS

Software: AutoCAD, PTC Creo 3.0 (Pro/Engineer), ANSYS Workbench, ABAQUS, ADAMS, SOLIDWORKS, MS Excel,

Programming Languages: MATLAB, C++

PROFESSIONAL EXPERIENCE

Regis Engineering, Machine Shop Engineer | Dar es salaam

Oct 2022 – August 2023

- Supported the production and development of a variety of efforts in engineering development, integration, and test and transition on complex electronic and mechanical systems
- Managed the design of basic mechanical components by utilizing engineering principles and theories
- Improved tooling processes on the manufacturing floor by redesigning tools through modeling, Increased fabrication by 25% drafting, through the use of SOLIDWORKS

Exactus Energy Inc, Solar Engineer & Drafter Trainee | Canada-Remote

Jan 2023 – Feb 2023

- Facilitated the production and development of permit package with other solar developers under Engineering design team between the Ontario and Manila offices.
- Developed residential solar project flows at Exactus Energy Inc. using Palmetto design protocol, resulting in a 20% increase in project efficiency and adherence to International Fire Code (IFC) 2015 regulations.

TECHNICAL EXPERIENCE

Projects

- Utilized MATLAB for Coin Imaging Processing METROLOGY COURSE (2024)
- Used Linear Regression, cubic regression and FNN model to analyze velocity of sound in fluid (2023)
- Designed Airship and 3D printing mini Project CAD IN MANUFACTURING (2023)
- D-flux subroutine Analyzed Aluminium sheet metal ABAQUS mini Project (2023)

AWARDS AND CONFERENCE

Awards, Dar es salaam Institute of Technology, Tanzania

December 2021

- System Reliability and Plant Maintenance cash prize.

Conference, International Conference on Material Processing Using Laser and Surface Engineering IIT Madras Dec 2023

- Attended conference IMPULSE 2023

AREAS OF INTEREST

CFD, CAD/CAM, FEA, DFM & AM