



Betruck Ouma

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• EDUCATION & TRAINING

5 Sep 2022 - Current - NYERI, KENYA

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING- DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY

- mechanics of machines & structural mechanics (statics, dynamics, kinematics, and dynamic load analysis)
- mechanical design & modeling (CAD/CAM integration using SolidWorks and Autodesk Inventor)
- simulation & engineering analysis (CFD, FEA)
- manufacturing & workshop technology (foundry operations, CNC & conventional machining, quality control)
- applied mathematics & control systems (numerical analysis, control theory modeling, statistical DOE using MATLAB and Minitab)
- thermodynamics & fluid mechanics (hydraulic calculations, turbomachinery design, thermal data & flow analysis)

15 Jan 2018 - 1 Apr 2022 - BUSIA, KENYA

KENYA CERTIFICATE OF SECONDARY EDUCATION (KCSE)- SIGALAME BOYS HIGH SCHOOL

9 Sep 2026

CERTIFIED SOLIDWORKS PROFESSIONAL (CSWP)- DASSAULT SYSTÈMES

- advanced 3D modeling
- assembly & configuration management
- engineering analysis (applied mass property calculations and design intent optimization)

1 Sep 2026

CERTIFIED SOLIDWORKS ASSOCIATE (CSWA)- DASSAULT SYSTÈMES

- CAD fundamentals (basic parametric modeling techniques, and design intent)
- part & assembly modeling (constructing fundamental mechanical parts & assemblies)
- engineering drafting (generating standard 2D drawings from 3D solid models)

14 May 2024 - 13 Sep 2024

SOFTWARE AND WEB DEVELOPMENT- POWER LEARN PROJECT

- application development (cross-platform application development utilizing Flutter and Dart, alongside Database Management using SQL)

2 Sep 2024 - 19 Dec 2024

ETHICAL HACKING- CISCO NETWORKING ACADEMY

- cybersecurity & network defense (ethical hacking methodologies, network vulnerability assessments, and system diagnostics)

• WORK EXPERIENCE

9 FEB 2026 - 15 MAY 2026 - NAIROBI, KENYA

MECHANICAL ENGINEERING ATTACHÉNUMERICAL MACHINING COMPLEX (NMC)

- CNC machining & precision manufacturing (programming and operating multi-axis CNC milling and turning centers including MAHO and Haas to high precision tolerances)
- metallurgy & metal casting (pattern design allowances, metal casting, quality control, hot-dip galvanizing)
- fabrication & structural joining (advanced thermal joining including SMAW, MIG, and TIG welding)
- CAD/CAM

27 JAN 2025 - 18 APR 2025 - NAIROBI, KENYA

MECHANICAL ENGINEERING ATTACHÉASSOCIATED MOTORS, ISUZU

- vehicle diagnostics & electromechanics (advanced electromechanical troubleshooting and system fault resolution using integrated diagnostic software)
- automotive servicing & maintenance (comprehensive periodic maintenance, servicing, and structural repairs on heavy-duty and light units)
- quality assurance & safety compliance (executing Pre-Delivery Inspections [PDI] and enforcing quality standards)

8 JAN 2024 - 29 MAR 2024 - NYERI, KENYA

MECHANICAL ENGINEERING ATTACHÉDEDAN KIMATHI UNIVERSITY OF TECHNOLOGY

- mechanical design & optimization (leveraging CAD/CAM tools to improve fabrication efficiency and fluid dynamic performance)
- workshop operations & machining (lathe, milling, and drilling equipment for precision part production and system modifications)
- systems maintenance & fabrication (installation of dynamic mechanical systems and structural fabrication)

• SKILLS

CSWP - Certificate in solidworks professional mechanical design | Certified SOLIDWORKS Associate (CSWA) | Autocad and Solidworks | Microsoft Office | AutoCad 2D -3D | CAD software | Ansys workbench CFX | Mechanical Cad Design | MATLAB | Statistical analysis (MINITAB)

• HONOURS AND AWARDS

23 FEB 2026 Dedan Kimathi University of Technology

Top Academic Performer - Mechanical Engineering Recognized as the best student in the Bachelor of Science in Mechanical Engineering program for three consecutive academic years (**1st Year, 2nd Year, and 3rd Year**).