

CURRICULUM VITAE

Personal Details

Names : Eng. Dr. Emmanuel Austine Ebinga Osore
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Educational Background

PhD in Mechanical Engineering (Manufacturing Process); University of Nairobi, Kenya (2016-2020)

MSc (Mechanical. /Industrial Engineering and Management); Masinde Muliro University of Science and Technology, Kenya (2012- 2014)

B. Tech (Mechanical. /Production Engineering– (First Class Honours); Masinde Muliro University of Science and Technology, Kenya (2005- 2010)

Kenya Certificate of Secondary Education (KCSE: B+); Khamis High School (2000-2003).

Kenya Certificate of Primary Education (KCPE: 515/700); Sparki Primary School (1993-1999)

Personal Profile

I am a Registered and Licensed Professional Mechanical Engineer and Lecturer in the Department of Mechanical and Industrial Engineering of Masinde Muliro University of Science and Technology, Kenya. I hold a PhD degree in Mechanical Engineering from The University of Nairobi – Kenya, an MSc. in Industrial Engineering and Management and a B. Tech in Production Engineering both from Masinde Muliro University of Science and Technology, Kenya.

My area of specialization is Manufacturing and Industrial technology which I have taught and researched intensively. I have published in peer-reviewed journals and presented various seminar and conference findings. I have also attended and participated in several workshops. Having worked in an Engineering consulting company, I have commensurate practical skills relevant to the industry. My research focus is on advanced manufacturing techniques, specifically automation in relation to material handling, CNC, 3D Printing and adaptive manufacturing. I also have a strong interest in free energy source discoveries. My current research includes lean automation on the competitiveness of industries in Kenya and the development of free sources of energy for remote areas in developing

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countries. I am a reliable, flexible, hardworking well-trained professional, ready to work in a multi-racial and multi-cultural environment with a major aim of providing capacity building to local expertise in the field of Engineering and other closely related fields.

Work Experience

Chairperson of Department - Department of Mechanical and Industrial Engineering, Masinde Muliro University of Science and Technology (November 2023 - Date)

Lecturer - Department of Mechanical and Industrial Engineering, Masinde Muliro University of Science and Technology (2021 - Date)

Assistant Lecturer - Department of Mechanical and Industrial Engineering, Masinde Muliro University of Science and Technology (2014- 2021)

Graduate Assistance - Department of Mechanical and Industrial Engineering, Masinde Muliro University of Science and Technology (2011- 2014)

Internship - Prime Consult Ltd (Mechanical and Electrical Consulting Engineers and Project Management) (October-December 2011)

Data Remediation Clerk - Kenya Commercial Bank Ltd (June - September 2011)

Trainee - South Nyanza Sugar Company, Sare Awendo (May-July 2009)

Trainee - Kenya Ports Authority, Mombasa (September-October 2008)

Trainee- Pan African Paper Mills Ltd, Webuye (July-September 2008)

Professional Affiliation

1. Registered Engineer by Engineers Board of Kenya (EBK) – EBK No. A5423
2. Registered member of The Institution of Engineers of Kenya (IEK) – IEK No. M12540
3. Registered member of the Institution of Engineering Technologists and Technicians of Kenya (IET) Registration No. 436

Grants – KSh 2,415,731

1. Masinde Muliro University of Science and Technology Staff Development Scholarship SR/No. AC/SM/03/11/002 worth KSh 960,000.
2. ProUniEduWek THB-DAAD Workshop and one month Scholarship 2018 Worth KSh 404,000
3. MSc Research grant by National Commission for Science, Technology and Innovation (NACOSTI) 5th Call 2013/2014 worth KSh 153,000
4. Brandenburg University of Applied Sciences (BAUS) Equipment purchase grant 298,731
5. Brandenburg University of Applied Sciences (BAUS) T8 1310 CNC Engraver for Teaching and Research. Equipment purchase grant KSh 150,000
6. Magdeburg University of Applied Sciences – Stendel, Bambu lab x1 carbon 3D printer for Teaching and Research under ‘Water mills for field irrigation’ Multidisciplinary project Equipment purchase grant KSh 450,000
- 7.

Extra Skills

Computer skills:

1. Basic knowledge of ANSYS™ and CHEMCAD™ Simulation and Modelling softwares
2. Basic knowledge in Part programming for CNC lathe and Milling machines
3. Basic knowledge of Arduino™ Programming.
4. A good command of MS Office™ (Word™, Excel™, Access™ and PowerPoint™, Publisher™, Office Project™)
5. Basic knowledge of programming in Pascal programming language through computer studies at High school.
6. Good command of graphic design applications (AutoCAD™, Inventor™, Fusion™ and SolidWorks™) through training during internship and personal determination.



Leadership skills/ Community contributions:

1. Member of St. Michael community prayer group (Emukhuwa Sub-Parish, Bukaya Parish, Kakamega Diocese) (2012 – Date)
2. Member of St. Mary community prayer group (Mutsembi Sub-Parish, St. Joseph Parish, Kakamega Diocese) (2012 – Date)
3. Active development committee member of the Mary Seat of Wisdom (MSOW) MMUST Chaplaincy (2012-Date)
4. Active philanthropist in personal and community initiatives (2012 – Date)
5. PTA Executive committee member at St. Ignatius Mukumu Boys High School, Kakamega Kenya. Representing Form 3Y (2014-2017)
6. An electoral commissioner for the Engineering Student Association at Masinde Muliro University of Science and Technology and the presiding officer of IEBC for the 2013 general elections.

Additional information

Administrative roles:

1. Chairperson, Department of Mechanical and Industrial Engineering (1st November 2023 – Date).
2. Program Leader of the BSc. Mechanical and Industrial Engineering Program in the Department of Mechanical and Industrial Engineering, SEBE, MMUST (May 2022 –Date)
3. Level 5 TVET Institutions and Industry Coordination Committee (TICC) member at Shamberere National Polytechnic, 2024 - Date
4. Member of the School of Engineering and Built Environment Graduate Studies Committee representing the Mechanical and Industrial Engineering Department (May 2022 – December 2023)
5. Trained Internal Quality Assurance Auditor, MMUST (9th July 2019 – Date)
6. A member of the Directorate of Corporate Communication and Marketing, School of

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Engineering and Built Environment Representative, MMUST (1st May 2018 – Date)

7. A member of the Directorate of Quality Assurance in charge of Examination Administration and Monitoring, MMUST (21st February 2018 – Date)
8. Acting Head of Mechanical and Industrial Engineering Department, MMUST (13th December 2016 – 17th January 2017)
9. Projects coordinator in the Department of Mechanical and Industrial Engineering (2014 – 2023)
10. A member of the Examination and Timetabling Committee in the Department of Mechanical and Industrial Engineering (2014 – 2018)
11. A member of the Curriculum review committee in the Department of Mechanical and Industrial Engineering (2014 – Date)
12. A member of Events and Functions Committee of the Institution of Engineers of Kenya (IEK) Western Branch (2024 – Date)

Projects Participation:

1. Proposed Establishment and Equipping of the Center of Excellence in Industrial Engineering at Masinde Muliro University of Science and Technology - Ongoing
2. Designed and fabricated a SMART Solar Box for the Empowerment of SMEs in Remote setups, Sponsored by Inter3DNA Program – DAAD, 2023
3. Designed and fabricated a Solar Box for the Empowerment of SMEs in Remote setups, Sponsored by Inter3DNA Program – DAAD, 2022
4. Designed and fabricated a mini 3D CNC Milling Machine for Educational Training, Sponsored by ProUni Edu-WEK Program – DAAD, 2021
5. Mechanical designing of the Roboken Robot construction of Masinde Muliro University of Science and Technology, 2014
6. Design and fabrication of robot at Masinde Muliro University for the national robotic exhibition context held at the Bomas of Kenya in 2010.
7. Flying Faculty member on ProUni Edu-WEK Program at Brandenburg University of Applied Sciences and Magdeburg University of Applied Sciences of Germany in 2018.
8. Flying Faculty member on ProUni Edu-WEK Program at Brandenburg University of Applied Sciences and Magdeburg University of Applied Sciences of Germany in 2021.
9. Flying Faculty member on Inter3DNA Summer School Program at Brandenburg University of Applied Sciences and Magdeburg University of Applied Sciences of Germany in 2022.

Trainings:

1. Competency Based Education Training Module at Golf Hotel on 5TH – 6TH March 2024
2. Supervision and Mentorship of Female Postgraduate in STEM

Journal Reviewer:

1. Renown Reviewer for Journal of Engineering Research and Reports, Certificate No: PRJERR129226EMM
2. Reviewer for the International Journal of Mechanical Engineering and Applications from July 21, 2023, to July 21, 2026- <http://www.ijmea.org/reviewers>

Publications:

Refereed Journals

1. Odoro, J. O., **Osore, E. E.**, & Chirchir, J. K. (2025). *Effect of cyclone orientation on the collection efficiency of a hybrid cyclone for fly ash reduction in Kenyan sugar industries*. SCIENCE MUNDI, 5(2), 187–191. <https://doi.org/10.51867/scimundi.5.2.17>
2. Mutobera, C. S., Masinde, B. H., & **Osore, E. E.** (2025). *Determination of water flow rate for the optimal biogas purification using water scrubbing technology at ambient temperature (23⁰ C)*. SCIENCE MUNDI, 5(2), 192–201 <https://doi.org/10.51867/scimundi.5.2.18>
3. Mabong, G. P., **A. E. Osore, E.**, & Peter T. Cherop. (2025). *Accuracy Assessment of Demonstrative-Kinesthetic Teaching of Robotic Manipulators to Acquire the Desired Position*. Bima Journal Of Science And Technology (2536-6041), 9(1a), 1-7. <https://doi.org/10.56892/bima.v9i1A.1229>
4. Griffin P. Mabong, **Emmanuel A. E. Osore**, Peter T. Cherop (2024), *A Demonstrative-Kinesthetic Teaching Approach For Inverse Kinematics Of A 4-Dof Robot Manipulator*, Journal of Applied Engineering Science, Vol. 22, No. 4, 2024, DOI: <https://doi.org/10.5937/jaes0-52032>
5. Griffin Pilot Mabong, **Emmanuel A.E.Osore**, Peter T.Cherop (2024), *Robot Manipulator Programming Via Demonstrative-Kinesthetic Teaching for Efficient Industrial Material Handling Applications*, African Scientific Annual Review, Vol 1(Iss. 1), pp. 165-171, 2024, ISSN: 3007-0902 URN:<https://asarev.net/ojs/index.php/asarev/article/view/15> DOI: <https://doi.org/10.51867/Asarev.Engineering.1.1.9>
6. Bonface Ochieng Otedo, Peter Tumwet Cherop, **Emmanuel Ebinga Osore** (2024), *Optimization of Drying Parameters for Minimization of Moisture Content in Black Tea Production*, Science Mundi, Volume 4 (Issue 2) 2024, pp. 198-210, ISSN: 2788-5844, URN: <https://sciencemundi.net/ojs/index.php/scimundi/article/view/74> DOI: <https://doi.org/10.51867/scimundi.engineering.4.2.18>
7. **E.A. Osore Ebinga** and Christian-Toralf Weber (2021), *Impact of the Number of Turbine Blades on the Efficiency of CrossFlow Turbine for Low Head, Low Flow: Finite Elements' CFD Analysis, Towards Practice-oriented Higher Education for Sustainable Rural Development in Western Kenya*: Proceedings of the final workshop of the DAAD funded project ProUniEdu-WeK Brandenburg an der Havel, Technische Hochschule Brandenburg, Germany. URN:urn:nbn:de:kobv:522-opus4-27420 DOI: <https://doi.org/10.25933/opus4-2742>
8. **E.A. Osore Ebinga**, Christian-Toralf Weber, J.K. Karobe and D.M. Kiteme (2021), *Design, Fabrication, and Testing of an Experimental 3-D programmable Milling Machine for training at Masinde Muliro University of Science and Technology, Towards Practice-oriented Higher Education for Sustainable Rural Development in Western Kenya*: Proceedings of the final workshop of the DAAD funded project ProUniEdu-WeK Brandenburg an der Havel, Technische Hochschule Brandenburg, Germany. URN:urn:nbn:de:kobv:522-opus4-27420 DOI: <https://doi.org/10.25933/opus4-2742>
9. **Osore E.A.E.**, Ogola J.M, and Ogot M.M (2021): *Impact of Lean Automation on Adaptive Control*

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for Improved Real-Time Process Control in Sugar Industry: Case of Kenya, ARPN Journal of Engineering and Applied Sciences, Vol. 16, No. 6, March 2021, pp. 656-665, ISSN 1819-6608 [Online]. Available: www.arpnjournals.com

10. Osore E.A.E, Ogot M.M and Ogola J.M, (2020): *Influence of Lean Automation on Resource Wastage in Sugar Industries: Case in Kenya*, International Journal on Advanced Science, Engineering and Information Technology, vol. 10, no. 5, pp. 1963- 1969, [Online]. Available: <http://dx.doi.org/10.18517/ijaseit.10.5.9261>

11. E.A.E Osore, J.M Ogola & M.M Ogot (2020): *Prospects of diffusion as a Six-Sigma automation in enhancing continuous improvement of cane juice extraction in Kenya*, Cogent Engineering, 7:1, 1733737. Taylor and Francis Publishers. Available online: <https://doi.org/10.1080/23311916.2020.1733737>

12 Osore E.A.E, Ogola J.M & Ogot M.M (2019): *Characterization of Levels of Automation on the Quality of Sugar Cane Juice Extraction: Case of Kenya*, Journal of Automation and Control, Vol. 7, No. 1, 15-24, DOI:10.12691/ Available online <http://pubs.sciepub.com/automation/7/1/3>

13 Osore E.A.E (2019): *Robotics as the appropriate measure for improving National and International security -Review*, International Journal for Research in Applied Sciences and Engineering Technology (IJRASET) ISSN: 2321-9653 Volume 7, Issue IV, April 2019 pp 2467 - 2470 DOI: 10.22214. [Online] <https://doi.org/10.22214/ijraset.2019.4450>

14 Ndugi D.S, Ndiema C.K, Omwando T.A, **Osore E.A.E**, Yegon E, (2015): *Energy audit for a steam plant (case Study pyrethrum factory in Nakuru, Kenya)*, International Journal of Innovative Research in Engineering & Management (IJIREM) ISSN: 2350- 0557, Volume- 2, Issue-5, September- 2015 pp 111-114

15. Osore E.A. E (2015): *Performance efficiency of jacketing materials in relation to emissivity on environmental conservation in insulated steam pipes*, International Journal of Engineering Research and Technology (IJERT) ISSN: 2278-0181, Volume4, Issue8, August 2015.pp 298-302

16 Osore E.A.E, Ndiema C.K, Masinde H.B, Ndugi D.S (2015): *Characterization of Emissivity of Jacketing Materials on Personnel Safety in insulated Steam Pipes*, International Journal of Engineering and Technical Research (IJETR) ISSN: 2321-0869 (O) 2454-4698 (P), Volume- 3, Issue-7, July 2015 pp18-21

17. Osore E.A.E, Ahmed S.M, Rotich P.K (2015): *Correlation between process control and emissivity of jacketing materials in steam pipes*, International Journal of Engineering Science and Innovative Technology (IJESIT) ISSN: 2319-5967, Volume4, Issue4, July 2015 pp 68- 74

18 Osore E.A.E, Ndiema C.K, Masinde H.B, Ndugi D.S (2015): *Influence of Emissivity of Jacketing Materials on Energy Conservation in Insulated Steam Pipes*, International Journal of Engineering and Technical Research (IJETR) ISSN: 2321-0869 (O) 2454-4698 (P), Volume-3, Issue-7, July 2015 pp13-17

19. Omwando T. A. & Osore E.A.E (2010): *Evaluation and control of particulate fly ash in Sugar industries (A case study of South Nyanza sugar company Ltd-Kenya*, Proceedings of the 1st Engineering, Science and Technology conference at Masinde Muliro University of Science and Technology ISBN:9966-779-11-6 pp 275-288

Conference and Seminar papers presented:

1. **Osore E.A.E** “*Integrating Indigenous Renewable Energy Practices into Contemporary*

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Sustainable Solutions: Lessons from Wind, Solar, and Hydro Systems” The Institute of Indigenous Knowledge, Cultural Studies and Climate Change (IIKCSCC) in Collaboration with the School of Engineering and Built Environment, MMUST; Webinar Conference: Sustainable Engineering Practices Inspired by Indigenous Knowledge; 25th March 2025 at Masinde Muliro University of Science and Technology

2. **Osore E.A.E** “Process of Joining Engineering Professional bodies” Institute of Engineers of Kenya, Western Branch (IEKW): IEKW Sigalagala Mentorship program, 4th October 2024

3. **Osore E.A.E** “*Prospects of diffusion as a 6 σ - automation to improve production rate of cane juice extraction*”, Newton Fund Researcher Links Workshop: How Resilient Manufacturing can solve the unemployment problem in Kenya; 18th – 21st September 2018 at Intercontinental Hotel, Nairobi, Kenya.

4. **Osore E.A.E** “*Influence of Emissivity of Jacketing Materials on Energy Conservation in Steam Pipes*” Faculty of Engineering Seminar, 2014 Theme: Technology in Touch with Today and Tomorrow: Engineering News 1 (Part Two), 2014

5. **Osore E.A.E** “*Effects of Emissivity of Jacketing material on the performance of thermal insulation designs in steam pipes*” Seminar presentations in the department of Mechanical and Industrial Engineering of Masinde Muliro University of Science and Technology, 2013

6. **Osore E.A.E** “*Fuels and Combustions*” Seminar presentations in the department of Mechanical and Industrial Engineering of Masinde Muliro University of Science and Technology, 2012

7. **Osore E.A.E** “*Evaluation and control of particulate fly ash in sugar industries (A case study of South Nyanza sugar company-Kenya)*”, presented during the 1st engineering conference for the theme: Science and Technology for Engineering Innovation and Industrialization at Masinde Muliro University of Science and Technology, 9th -11th 2010.

Workshops and conferences attended:

1. Pragmatic Approach to Implementation of the MMUST 2024-2028 Strategic Plan: Role of Senate. 20th – 21st March 2025 Sirikwa Hotel Eldoret Kenya

2. Validation workshop for transition and completion rates at Masinde Muliro University of Science and Technology for the period 2017 – 2023, 17th March 2025, Golf Hotel Kakamega

3. Supervision and Mentorship of Female Postgraduate in STEM Workshop at Bishop Nicholas Stam Pastoral centre, 27th February 2024 – APHRC and IUCEA

4. Finite Element Analysis workshop training at Masinde Muliro University of Science and Technology, 5th – 7th March 2024

5. Micro Business Game Training sponsored by Wevarsity Sacco Ltd at Diamond Rock Hotel, 2nd - 4th September 2024

6. Inter3DNA Summer Workshop at Masinde Muliro University of Science and Technology in Kenya, 2023.

7. Inter3DNA Summer Workshop at Brandenburg University of Applied Sciences and Magdeburg University of Applied Sciences in Germany in 2022.

8. ProUni Edu-WEK Workshop at Brandenburg University of Applied Sciences and Magdeburg University of Applied Sciences in Germany in 2021.

9. ChemCAD chemical processes simulation training at MMUST, 29th November 2021 to 3rd December 2021

10. Newton Fund Researcher Links Workshop: How Resilient Manufacturing can solve the

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unemployment problem in Kenya; 18th – 21st September 2018 at Intercontinental Hotel, Nairobi, Kenya.

11. Stakeholders' workshop on TVET Programmes held on 17th – 19th February 2016 at Bishop Stem Pastoral center Kakamega, Kenya

12. Performance contracting awareness session held on 9th November, 2015 at the MMUST Graduation Square; Topic: *The role of performance contract in service delivery*.

13. Staff seminar on management of post graduate studies in MCU at Masinde Muliro University of Science and Technology on 23/04/2015

14. Academic advisory training workshop in MCU at Masinde Muliro University of Science and Technology, 2014

15. Faculty of Engineering Curriculum review workshop in MCU at Masinde Muliro University of Science and Technology, 2014

16. The Engineering Student's conference at Masinde Muliro University of Science and Technology for the theme "Science, Technology for self-reliance, economic stimulation and environmental conservation", 2014

17. National Human Rights Commission Defenders (NHRCD) workshop on Leadership, Integrity and Transparency at Sheywe Guest House, 2013

18. Publishing of Articles by Singer publishers in MCU Masinde Muliro University of Science and Technology, 2013

Current Postgraduate Research Supervision (4 TO COMPLETION)

1. Boniface Otedo Ochieng, MSc in Industrial Engineering and Management, MMUST: Thesis: Hydrodynamics analysis of fluidized bed dryer for improved thermal efficiency in tea factories using ANSYS – **Completed in 2024**

2. Griffin Pilot Mabong, MSc in Industrial Engineering and Management, MMUST: Thesis: Analysis of Demonstrative kinesthetic teaching technique of Robot manipulators for efficient industrial material handling applications – **Completed in 2024**

3. Joseph Odoro Ochieng, MSc in Industrial Engineering and Management, MMUST: Thesis: Optimization of hybrid cyclone in Reduction of Particulate flash in Sugar Industries – **Completed in 2025**

4. Conrad Mutobera Sakwa, MSc in Industrial Engineering and Management, MMUST: Optimization Of Biogas Purification Using Water-Scrubbing Technology For Enhanced Gas Quality – **Completed in 2025**

5. Samuel Kiragu Mwangi, MSc in Industrial Engineering and Management, MMUST: Thesis: Production and Analysis of PLA Biodegradable plastics for efficiency in the packaging industry – **Data Collection and Analysis**

6. Eng. Patrick Odhiambo Owino, PhD in Mechanical Engineering, MMUST: Thesis: Optimization of tilting Rotary Furnace for Waste Recovery in the Informal Manufacturing Sector – **Data Collection and Analysis**

7. Eng. David Omooria Masara, PhD in Mechanical Engineering, MMUST: Thesis: Investigation on biochar use for industrial effluent treatment – **Data Collection and Analysis**

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8. Eng. Vincent Odhiambo Onyango, PhD in Mechanical Engineering, MMUST: Thesis: Dynamics and wear simulation analysis of contact rolling metallic surfaces – **Data Collection and Analysis**
9. Philip Onyango Aluoch, PhD in Mechanical Engineering, MMUST: Thesis: Automation of sugar crystal growth rate dispersion for efficient productivity – **Data Collection and Analysis**
10. Eng. Douglas Omenda, PhD in Mechanical Engineering, MMUST: Optimizing Kenyan Manufacturing Through AI Driven MES: An Industrial Engineering Approach – **Proposal Writing**

Postgraduate Thesis Examination

1. Sammy Gutu Mugo, MSc in Industrial Engineering and Management, MMUST: Thesis: Optimization of Turbine Blade Pitch Angle of a Home-Built Wind Turbine for Maximum Power output – Internal Examiner
2. Reuben Kirwa Tum, MSc in Industrial Engineering and Management, MMUST: Thesis: Co-Digestion of Mixture of Cow Dung and Maize Stalk Residues and its Influence on Biogas Production - Internal Examiner
3. Christine Omina Mutayi, MSc in Civil and Structural Engineering, MMUST: Thesis: Structural Characterization of Timber Species for Engineering Application - Internal Examiner
4. Benard Cheruiyot Ronoh, MSc in Industrial Engineering and Management, MMUST: Determination of combustible properties of blended briquettes of sawdust, maize stalks and coffee husks – Internal Examiner

Hobbies

Playing football, Athletics, Swimming, Travelling, Chatting

Research topics

3D Printing, Advanced Manufacturing, Industrial robotics, Free energy resources, computational fluid dynamics, modelling and simulation of mechanical systems, design and optimization of industrial processes.

Areas of expertise

Research, Safety, Quality assurance, Engineering design, manufacturing processes, industrial robotics and automation

Courses Taught

1. Industrial Robotics,
2. Robotics Systems,
3. Engineering design,
4. CAD/CAM,
5. Manufacturing processes,
6. Metrology,
7. Computer Integrated Manufacturing,
8. Project Coordination and Supervision,

- 9. Strength of materials,
- 10. Mechanical vibrations,
- 11. Workshop Technology and Practices**

Referees

Prof. Eng. Julius Maima Ogola

Professor of Mechanical Engineering,

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Dr. Filbert Onkundi Ombongi

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Prof. Dr.-Ing. Christian-Toralf Weber

Leicht- und Stahlbaukonstruktion Dekan

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