

CURRICULUM VITAE

Jean Bosco BYIRINGIRO

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Technology P. O. BOX 657 - 10100, NYERI., Nyeri-Kenya

EDUCATION

- 2010 - 2012 Yeungnam University, South Korea
Major: Mechanical Engineering, PhD
Specialization: Micro and Nano Fabrication
- 2007 - 2009 Jomo Kenya University of Agriculture and Technology, Kenya
Research: Technical University of Kaiserslautern, Germany
Major: Mechatronic Engineering, MSc.
- 2000 - 2005 College of Science and Technology - University of Rwanda.
Major: Electro-Mechanical Engineering, BSc.
- 1998 - 1999 Ecole Technique Officielle de Muhima, Rwanda.
Section: Electro-Mechanique, DES A2
- 1989 - 1994 Ecole Technique Officielle de Kibungo, Rwanda.
Section: Electro-Mechanique
- 1979 - 1983 Ecole Primaire, Karubamba-Rukara, Rwanda (**Cycle Inferieur**)
- 1984 - 1988 Ecole Primaire, Gahini-Rukara, Rwanda (**Cycle Superieur**)

SCHOLARSHIPS AND AWARDS

- 2000 - 2005 The Students Financing Agency of Rwanda (SFAR), Rwanda
- 2007 - 2009 German Academic Exchange Service (DAAD), In-Country and In-Region Scholarships, Kenya & Germany
- 2010 - 2012 Brain Korea (BK) 21 Program for Leading Universities & Students, South Korea
- 2015-2016 Fund mobilization Vice-Chancellor Award at Dedan Kimathi University of Technology (DeKUT), Nyeri, Kenya

EXTRA TRAINING

June-July 2019	FallSim Didactics, DAAD Project-Network HAW Kenya, Germany
June 2018	Siemens Automation Cooperates with Education (SCE), Totally Integrated Automation (TIA) Portal, Nelson Mandela University (NMU), Port Elizabeth, South Africa
July-August 2017	Siemens Mechatronics Systems Certification Programme (SMSCP)-Level 3, Germany
December 2016	Capacity Enhancement for Teaching and Research Extension for Management of Critical Medical Devices, Nyeri, Kenya
Oct.- Nov. 2016	Siemens Mechatronics Systems Certification Programme (SMSCP)-Level 1 & 2, Germany
December 2015	Supervisory and Management Skills at DeKUT, Nyeri, Kenya
Sept.- Dec. 2008	Micro-EDM operations. Research Laboratory of the Technical University of Kaiserslautern and University of Karlsruhe, Germany
March 2008	Laser science and applications-African Laser Centre (ALC), Kenya

EMPLOYMENT

September 2019 - Present	Associate Professor , Dedan Kimathi University of Technology.
April 2015 - August 2019	Senior Lecturer , Dedan Kimathi University of Technology.
February 2013 - April 2015	Lecturer , Dedan Kimathi University of Technology.
September 2009 - February 2012	Assistant Lecturer , College of Science and Technology – University of Rwanda University
December 2005 - September 2009	Tutorial Assistant , College of Science and Technology – University of Rwanda
September 2000 - December 2005	Technician , Soymilk Production Plant Conseil Consultatif des Femmes (COCOF), Rwanda (<i>Part-time</i>)
September 1999 - August 2000	Electrician , New Connection and Maintenance of Pre-paid Energy meters Rwanda Energy Group Limited (REG), Rwanda

October 1994 -
December 1996

Electrician, Memisa — MMI - Medicus Mundi International

LEADERSHIP

- 2018-
Present **Ag. Director, Siemens Training Centre**
Duties and Responsibilities
- Head of the academic and administrative matters at the Centre
 - Responsible for planning, establishment and the growth of all facets of the Centre
 - Supervise both academic and non-academic staff working at the Centre
 - Attend Deans' Committee and Senate board meetings
 - Undertake all activities pertinent to success of the Centre
- 2015-
2016 **Ag. Dean, School of Engineering**
Duties and Responsibilities
- Head of the academic and administrative matters in the School
 - Responsible for planning, establishment and the growth of all facets of the School
 - Supervise both academic and non-academic staff working in the School
 - Attend Deans 'Committee and Senate board meetings
 - Undertake all activities pertinent to success of the School
- 2016-
Present **Thematic Leader, Automated Manufacturer and Industrial Robotics, MET, Dept.**
Duties and Responsibilities
- Ensure that the teaching and examination in the thematic area is of highest standard.
 - Oversee development and regular review of curriculum in your area of thematic readership
 - Keep abreast with current trends in the thematic area
 - Guide and mentor both junior staff and students
 - Undertake research in the thematic area
 - Teach and supervise postgraduate students as part of your work load
- 2015-
Present **Programme coordinator, School of Engineering**
Programmes:
- PhD Mechanical Engineering
 - MSc. Advanced Manufacturing and Automation Engineering
 - Siemens Mechatronics Systems Certification Programme (SMSCP)
- 2013-
Present **Chairman, Mechatronic Engineering Department**
Duties and Responsibilities
- Head of the academic and administrative matters in the Department
 - Responsible for planning, establishment and the growth of all facets of the Department

- Supervise both academic and non-academic staff working in the Department
- Attend School and Senate board meetings
- Undertake all activities pertinent to success of the Department

PROFESSIONAL AFFILIATIONS AND SERVICES

PROFESSIONAL REGISTRATION

- Engineers Board of Kenya (EBK)
- Institution of Engineers Rwanda (IER)
- Siemens Mechatronics Systems (SMS)

AD-HOC GRANT EVALUATOR

- The Partnership for skills in Applied Sciences, Engineering and Technology (PASET) Regional Scholarship and Innovation Fund (RSIF)

AD-HOC EXTERNAL EXAMINER

- Meru University of Science & Technology
- Jomo Kenya University of Agriculture and Technology, Kenya

AD-HOC REVIEWER

- Institute of Electrical and Electronics Engineers (IEEE)
- Science direct (Elsevier)
- The Korean Society of Manufacturing Process Engineers (KSMPE)
- Journal of Sustainable Research in Engineering (JSRE)
- Journal of Nano Science and Quantum Physics (JNSQP)
- The Journal of Applied Sciences, Engineering and Technology for Development (JASETD)

AD-HOC ADJUNCT FACULTY

- University Bourgogne Franche-Comté/ University Franche-Comté
- Murang'a University of Technology
- Pan African University Institute for Basic Sciences Technology and Innovation

AD-HOC COMMITTEE

- University Security, DeKUT
- Staff Appointment and Promotion, DeKUT
- Postgraduate Research agenda, PAUSTI
- Masters and PhD Curriculum Development, PAUSTI
- Establishment of German-Eastern Africa University of Applied Science
- Memorandum of Understanding between DeKUT-UBFC/UFC (France)
- Memorandum of Understanding between DeKUT-KenGen (Kenya)
- Memorandum of Understanding between DeKUT-KPLC (Kenya)
- Memorandum of Understanding between DeKUT-Siemens (South-Africa)

PUBLICATIONS

PEER-REVIEWED BOOK

- **Jean Bosco Byiringiro**, “SU-8 Micro-mask on 3D Freeform Surface of Brittle Materials for AJM: Optimal Conditions of SU-8 Mask for Micro-Abrasive Jet Machining of 3D Freeform Brittle Materials” Lambert Academic Publishing (LAP) ISBN: 978-3-659-40727-7, AG & Co. KG (2013), Germany.
- **Jean Bosco Byiringiro**, “Tunable Fuzzy Logic Based Controller for Micro-EDM Servo System”, Lambert Academic Publishing (LAP) ISBN: 978-3-8383-8160-2, AG & Co. KG (2010), Germany.

PEER-REVIEWED JOURNAL ARTICLES

- Nahashon O. Osinde, **Jean B. Byiringiro**, Michael M. Gichane, and Hasan Smajic, Process Modelling of Geothermal Drilling System Using Digital Twin for Real-Time Monitoring and Control, Molecular Diversity Preservation International and Multidisciplinary (MDPI), *Designs* 2019, 3(3), 45
- Tsegai Okbay Yhdego, **J. B. Byiringiro**, Ominde Fundi Calvine, Optimization of Laser Beam Machining Parameters of Acrylic Board Using Artificial Neural network and Gray Relational Analysis, The International Journals of Engineering and Sciences (IJENS), ISSN: 2227-2771 (**Accepted**)
- James Maina Muriithi, Harrison Ngetha, **Jean Byiringiro**, Kevin Volkmer and Thomas Carolus, Wind Data Analysis, Annual Resource Estimation and Comparison with Measured Annual Energy Yield at the University Wind Turbine, EJERS, European Journal of Engineering Research and Science, Vol. 4, No. 6, June 2019
- Wycliffe O. Ondiek, Harrison T. Ngetha, James N. Keraita, **Jean B. Byiringiro**, Investigating the Effect of Fiber Concentration and Fiber Size on Mechanical Properties of Rice Husk Fiber Reinforced Polyester Composites, International Journal of Composite Materials p-ISSN: 2166-479X e-ISSN: 2166-4919 2018; 8(5): 105-115
- Cornelius J. Nganga and **Jean B. Byiringiro**, Effective Maintenance Strategy of Cane Crushing Mills for Improvement of Sugar Production in Kenya, IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE) e-ISSN: 2278-1684, p-ISSN: 2320-334X, Volume 15, Issue 2 Ver. V (Mar. - Apr. 2018), PP 01-12

- Samuel Kang'iri, Christian Gradl, **Jean Byiringiro**, and Harrison Ngetha Design and Calibration of a 3D-Printed Cup-Vane Wireless Sensor Node, *Designs* 2018, 2(3), 21
- Silvanus M. Mukai, Peter N. Muchiri, **Jean B. Byiringiro**, Progression and Forecasting of Steel Demand in Kenya, *IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)* e-ISSN: 2278-1684, p-ISSN: 2320-334X, Volume 15, Issue 4 Ver. III (Jul. - Aug. 2018), PP 79-88
- Martin Irungu Kamande, **Jean Bosco Byiringiro**, and Peter Ng'ang'a Muchiri, Artificial Neural Network Based Model for Temperature Prediction of an Industrial Oven, *IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE)* e-ISSN: 2278-1676, p-ISSN: 2320-3331, Volume 13, Issue 2 Ver. II (Mar. – Apr. 2018), PP 73-79
- Bande Leonard Mutiva, **Jean Bosco Byiringiro**, and Peter Ng'ang'a Muchiri, A Study on Suitability of Recycled Polyethylene Terephthalate for 3D Printing Filament, *IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)* e-ISSN: 2278-1684, p-ISSN: 2320-334X, Volume 15, Issue 2 Ver. III (2018), PP 04-09
- Moses B. Kataka, **Jean B. Byiringiro**, Peter N. Muchiri, *IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)* e-ISSN: 2278-1684, p-ISSN: 2320-334X, Volume 15, Issue 2 Ver. III (Mar. - Apr. 2018), PP 53-63
- S.N. Irungu, P.N. Muchiri, **J.B. Byiringiro**, The generation of power from a cement kiln waste gas: a case study of a plant in Kenya, *Energy Science and Engineering* (2017); 5(2): 90–99
- J.M Wathigo, J.N Keraita, **J.B Byiringiro**, and J.N Muguthu Investigation on Optimal Cutting Parameters in Turning AISI 8660 Steel Using Silicon (SiC) Whisker Reinforced Ceramic Tool, *IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)* e-ISSN: 2278-1684, p-ISSN: 2320-334X, Volume 14, Issue 4 Ver. II (2017), PP 80-88
- Benson K. Mbithi, **Jean B. Byiringiro**, Alphonse Niyibizi Experimental Investigation and Optimization of Laser Cutting Parameters for Solar Cells Based on Taguchi Method, *IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)* e-ISSN: 2278-1684, p-ISSN: 2320-334X, Volume 14, Issue 5 Ver. II (2017), PP 41-51
- David M. Njeru, **Jean B. Byiringiro**, Peter N. Muchiri, Process Analysis for Emission Control within the Small-Scale Coffee Roasting Industries in Kenya, *IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)* e-ISSN: 2278-1684, p-ISSN: 2320-334X, Volume 14, Issue 6 Ver. I (2017), PP 70-78
- Bonface K.Cheruiyot, **Jean B. Byiringiro**, Peter N. Muchiri Load Optimization by Steam and Blade Wash in a Flash Type Power Plant –A case study of Olkaria II, *IOSR Journal of Mechanical and Civil Engineering (IOSR-JMCE)* e-ISSN: 2278-1684, p-ISSN: 2320-334X, Volume 14, Issue 6 Ver. I (2017), PP 64-70
- **Jean Bosco Byiringiro**, Rosemary Kagundu, Samuel Macharia Kangiri, Sultan Mukhlis, Development of Interface for Control of the Postgraduate

Students Workload in Terms of ECTS Credits, IJEMA (2016) ISBN:978-9966-092-70-0, Volume 14, PP 64-70

- **Byiringiro J.B.**, Ko T.J, Kim H.C, Lee I.H., “Optimal Conditions of SU-8 Mask for Micro-Abrasive Jet Machining of 3-D Freeform Brittle Materials”, International journal of Precision Engineering and Manufacturing (14), No. 11 (2013) 1989-1996, Springer
- **Byiringiro J.B.**, Kim M.Y., Ko T.J., “Process modeling of hybrid machining system consisted of electro discharge machining and end milling”, International Journal of Manufacturing Technology, 61 (2012) 1247-1254, Springer

PEER-REVIEWED CONFERENCES PUBLICATIONS

- Mwachugha, A. G, Stahl, K, Carolus, T, **Byiringiro, J.B.**, and Ngetha, H Design, Validation and Calibration of a Rapid protyped wind speed measuring instrument, The DeKUT Science, Technology, Innovation and Entrepreneurship Conferences, 7th – 9th November, 2018
- Muriithi, J. M., Carolus, T., Ngetha, H. T, **Byiringiro, J. B.**, and Volkmer.K Wind data analysis, annual resource estimation and comparison with measured annual energy yield, The DeKUT Science, Technology, Innovation and Entrepreneurship Conferences, 7th – 9th November, 2018
- **Byiringiro J.B.**, Juma D.W., Keraita J.N., Micro-Stereolithography process for fabrication of mask onto a 3D freeform workpiece, Society of Electrical and Electronics Engineers International Conference (KSEEE-2013), Kenya
- **Byiringiro J.B.**, Ko T.J., Kim H.C., Lee I.H., “Fabrication of the photo-resist mask onto 3D nonplanar wafer for micro-abrasive jet machining”, Proceedings of the 2012 Mechanical Engineering Conference on Sustainable Research and Innovation, ISSN 2079-6226, 4 (2012) 155-161, Kenya
- **Byiringiro J.B.**, Ko T.J., Kim H.C., Lee I.H., “Fabrication of the rapid mask onto 3D non-planar wafer for micro-abrasive jet machining”, Proceedings of Korean Society for Precision Engineering, KSPE ISSN:2005-8446 (2012) 535-536, South Korea
- **Byiringiro J.B.**, Kim M.Y., Ko T.J., “Recent development in the hybrid machining process: EDM together with milling on Steel alloys”, Proceedings of the 3rd International and 24th All India Manufacturing Technology, Design and Research Conference, AIMTDR (2010) 441-446, India
- **Byiringiro J.B.**, Kim M.Y., Ko T.J., “Experimental investigation of machining parameters for hybrid machining process”, The 7th International Workshop on Micro- Factories, IWMF (2010) 225- 230, South Korea
- **Byiringiro J.B.**, Ikua B.W., Nyakoe G.N., “Fuzzy logic-based controller for Micro- electro discharge machining servo systems”, IEEE Africon 1-2 (2009) 175-180, Kenya Byiringiro J.B., Kim M.Y., Ko T.J., “Recent

development in the hybrid machining process: EDM together with milling on Steel alloys”, Proceedings of the 3rd International and 24th All India Manufacturing Technology, Design and Research Conference, AIMTDR (2010) 441-446, India

- **Byiringiro J.B.**, Kim M.Y., Ko T.J., “Experimental investigation of machining parameters for hybrid machining process”, The 7th International Workshop on Micro- Factories, IWMF (2010) 225- 230, South Korea
- **Byiringiro J.B.**, Ikua B.W., Nyakoe G.N., “Fuzzy logic-based controller for Micro- electro discharge machining servo systems”, IEEE Africon 1-2 (2009) 175-180, Kenya

CONFERENCE PRESENTATIONS

TALKS

- **Jean Bosco Byiringiro**, application of smart technologies in Africa manufacturing industries- “*Industrie 1.0 to 4.0*” African Union Commission Consultative Workshop on The African Continental Free Trade Area for Private Sector and Civil Society at Dakar, Senegal-5th to 9th November 2018
- **Jean Bosco Byiringiro**, Application of Smart Technologies in Manufacturing Industry in Kenya, world standards celebrations at Nairobi, Kenya on 16th October 2018
- **Jean Bosco Byiringiro**, Hybrid Machining System Comprising of EDM and End-Milling Research Links Workshop (Newton Fund Researcher Links Workshop on “Resilient Manufacturing”) at Nairobi, Kenya-18th to 21st September 2018.
- **Jean Bosco Byiringiro**, Africa Industry Trends and Requisite Skills to Promote Structural Transformation of The Region, 1st Morendat Institute of Oil & Gas Conference at Nairobi, Kenya- 15th to 18th May, 2018
- **Jean Bosco Byiringiro**, Economic Development and Trends in East Africa, Siemens East Africa Partner & Customer Conference, Nairobi, Kenya- 20th to 21st February 2018

TEACHING BSC, MSc, PhD

BACHELOR COURSES

- Sensors and Transducers, I & II

- Measurement and Instrumentation
- Electrical Machine Drives I & II
- Manufacturing Process Planning
- Manufacturing Technology I & II
- Project
- Electro Pneumatic and Hydraulic Systems

MASTERS COURSES

- Advanced Machining Process
- Engineering Research Methodology
- Advanced Rapid Prototyping
- Machine Dynamics
- Complex Production Systems
- Advanced Production Technology
- Programmable Logic Controllers and Applications
- Power Electronics Converters
- Machine Modelling and Analysis
- Manufacturing and Automation
- Micro-Fabrication and Nanotechnology

PHD COURSES

- Engineering Research Methodology
- Industrial Rapid Prototyping and Tooling Systems
- Advanced MEMS and Sensor Systems
- Renewable Energy Generation and Storage Technology.

RESEARCH INTERESTS

- Development of Digital Twin and Digital Triplet for Real-Time Monitoring and Control of Industrial Machines- “*Virtual Machines Control*”
- Design and Development of 3D active Micro-Mechatronics structures Control with Embedded Computers and Programmable Logic Controllers (PLC)
- Development of Novel Wind Resource Assessment Systems for Model of Wind Power Generation and Integration in Smart Grids
- Development of Base and Core Technologies for Nano/Micro-Based Ultra Precision Hybrid Machining Systems
- Development of an Economic Fabrication Technique of a 3D Rapid Micro-Mask Based on Micro-Stereolithography for Micro-Abrasive Jet Machining

RESEARCH FUNDS

- Tender No MOEST/HEST/06/ 2015 -----(**KShs. 92,167,371**) - **Partially funded**
- Siemens training equipment AWB 9738966495/2017---- (**KShs.9,179,854**)-**Fully funded**
- Multidisciplinary Research Grant Programme----NRF/R/2017/FORM 1A (**KShs.19,835,822.5**). **Waiting for outcome**
- Royal Academy of Engineering, Higher Education Partnerships in Sub-Saharan Africa (HEP SSA) 2019-----(**Kshs.25,118,681**). **Waiting for outcome**

ACCREDITATION OF PROGRAMMES

- MSc.in Advanced Manufacturing & Automation Engineering by Commission for University Education-(CUE), Kenya (**Accredited in 2014**)
- BSc. Mechatronic Engineering by Engineers Board of Kenya (EBK), Kenya (**Accredited in 2015**)
- Siemens Mechatronics Systems Certification Programme (SMSCP) by Siemens AG, Germany (**Accredited in 2017**)
- Continuous Professional Development (CPD) by Engineers Board of Kenya (EBK), Kenya (**Accredited in 2018**)
- Industrial Attachment by the National Industrial Training Authority (NITA), Kenya (**Accredited in 2019**)
- PhD Mechanical Engineering by Commission for University Education (CUE), Kenya (**Process ongoing**)
- MSc. Mechanical Engineering by Commission for University Education (CUE), Kenya (**Process ongoing**)

POSTGRADUATE SUPERVISION

PHD

- Mr. Kimari M. Patrick, A frame work for assessing energy efficiency potential and renewable energy integration in process industry (**Successfully completed coursework and Research in progress from 2016**)
- Mr. Inno Odira, Experimental Analysis of Vibrations Transmission in Microstructures (**Successfully completed coursework and Research in progress from 2016**).
- Ms. Wairimu Grace, A Study on Damage Threshold for Surfaces During Laser Paint Removal (**Successfully completed coursework and Research in progress from 2017**)

MASTERS

- Bande Leonard Mutiva, A Study on Suitability of Recycled Polyethylene Terephthalate for 3D Printing Filament (**Graduated -2017**).
- Stanley Ngari Irungu, Generation of Power from Kiln Waste Heat: Case Study of East African Portland Cement Ltd (**Graduated-2017**).
- Martin Irungu Kamande, Artificial Neural Networks' Based Model for Temperature Prediction of an Industrial Oven (**Graduated-2017**)
- Benson Kilonzo Mbithi, Optimization of Fiber Laser Cutting of Solar Cells: Modeling and Experimental Approach (**Graduated -2018**)
- Bonface Kipkorir Cheruiyot, Load Optimization by Steam and Blade Washing in aFlash Type Power Plant - A Case Study of Olkaria II Power Plant (**Graduated-2019**)
- James M Wathigo, Investigation on optimal cutting parameters in turning AISI 8660 steel using silicon (SiC) whisker reinforced ceramic tool (**Graduated-2019**)
- Njeru David Mwangangi, Process Analysis for Emission Control within the Small-Scale Coffee Roasting Industries in Kenya. (**Graduated-2019**)
- Samuel Macharia, Real-Time Remote Wind Data Acquisition and Processing System for Wind Turbines using Internet of Things Technology (**Graduated-2019**)
- Wycliffe Odhiambo Ondiek, Comparative Study on Mechanical Behaviour of Mango Endocarp and Rice Husks Natural Fibre Reinforced Polymer Composites (**Graduated-2019**)
- Moses B. Kataka, Optimization of Printing Press Operations (**Submitted in April 2019**)
- Francis Maina, Conception D'un Drone Hexarotor (**Double degree - Submitted in August 2019 at UBFC/UFC, France**)
- Morris Mwangi, Electrostatic Actuation for Programmable Matter (**Double degree - Submitted in August 2019 at UBFC/UFC, France**)
- James Maina, Wind data analysis, annual resource estimation and comparison
with the annual energy yield (**Submitting in September 2019**)
- Mwachuga Gift, Development of a Reliable wind speed measurement with a
calibrated cup anemometer (**Submitting in October 2019**)
- Maingi George Mwenda, Design and Implementation of a Remote Water Management System in Olkaria Geothermal Field (**Submitting in October 2019**)
- Jacob Ita Mbiti, The Effects of Grid Disturbances in Kenya Power System (**In progress from 2016**).
- Anyona Morang'a Kennedy, Using Geothermal Energy in Recycling Polyethylene Terephthalate (PET) in Kenya: Case Study of Olkaria (**In progress from 2016**).
- Ascar Mukabana Wepoh, Optimal Utilization of Geothermal Energy by Use of Low& Medium Enthalpy Wells for Direct Use of Poultry Incubator (**In progress from 2016**)

- Charles Odada: Investigating the viability of extruding filament in different colors of filament from PLA Pellet (**In progress from 2016**)

CURRICULUM DEVELOPMENT

- PhD programme in Mechanical Engineering, DeKUT
- PhD Mechatronic Engineering, PAUSTI
- MSc. Mechatronic Engineering, PAUSTI
- MSc. Programme in Mechanical Engineering, DeKUT
- MSc. programme in Advanced Manufacturing and Automation Engineering (AMAE), DeKUT
- BSc. Mechatronic Engineering, DeKUT
- Bachelor of Technology in Mechatronic Engineering, MUT

UNIVERSITY POLICY DEVELOPMENT

- Graduate assistantship policy
- Part-time payment policy

RESEARCH PROJECTS

- **Jean Bosco Byiringiro**, Hasan Smajic, Digital Twin and Digital Triplet for Real-Time Monitoring and Control of industrial machines (2019)
- **Jean Byiringiro**, Samuel Kang'iri Design and Calibration of a 3D-Printed Cup-Vane Wireless Sensor Node (2018)
- **Jean Bosco Byiringiro**, Julius Karanja, Revival of Micro-Hydro power plant in coffee farm of Dedan Kimathi University of Technology (DeKUT). Project sponsored by DeKUT Research Grants, Kenya (2015)
- **Jean Bosco Byiringiro**, Ko Tae Jo, Fabrication of a photo-resist micro-mask on 3D freeform workpiece surface for micro-abrasive jet machining. Project sponsored by Yeungnam University Research Grants, South Korea (2011)
- **Jean Bosco Byiringiro**, Ko Tae Jo, Process modeling of hybrid machining system consisted of electro discharge machining and end milling, Project sponsored by Yeungnam University Research Grants, South Korea (2010)
- **Jean Bosco Byiringiro**, R.Haberland, Design and simulation of a fuzzy logic-based servo controller of a micro-electro discharge machining (EDM) system. Project sponsored by DAAD Research Grants, Germany (2008)
- **Jean Bosco Byiringiro**, Mugwaneza Francis, Development of a novel small-scale Francis turbine testing unit for laboratory experiments. Project sponsored by College of Science and Technology - University of Rwanda, Research Grants, Rwanda (2007)

- **Jean Bosco Byiringiro**, Juvenal Turatsinze, Development of an infant formula for replacement of breast feeding from mother to child, Project sponsored by Clinton Foundation Research Grants, Rwanda (2006)
- **Jean Bosco Byiringiro**, Juvenal Turatsinze, Development of an electromechanical system for transformation of soybeans. Project sponsored by TROCAIRE Research Grants, Rwanda (2005)

LANGUAGES

- **Kinyarwanda:** Native language.
- **English:** Fluent (Speaking, Reading, Writing)
- **French:** Intermediate (Reading, Writing, Speaking)
- **Swahili:** Intermediate (Reading, Writing, Speaking)
- **German & Korean:** Basic Command

REFEREES

- Prof. Ikua B. Wamuti (Ph.D, Reg. Eng.), Deputy Vice-Chancellor (DVC), Administration, Jomo Kenyatta University of Agriculture and Technology (JKUAT). Email: ikua33@hotmail.com
- Prof. Alex M. Muumbo (Ph.D, Reg. Eng.), Executive Dean, Faculty of Engineering Sciences and Technology Technical University of Kenya (TUK). Email: muumboalexis@gmail.com
- Prof. Nancy Karuri (Ph.D), Chairperson, Mechanical Engineering Department, Dedan Kimathi University of Technology (DeKUT). Email: nkaruri36@gmail.com

CERTIFICATION

I, the undersigned, certify that to the best of my knowledge and belief, these Biodata correctly describe myself, my qualifications and my experience.



Signature

Kenya, 18th August 2019
Place & Date