

NELSON MANDELA

UNIVERSITY



April 2023
Autumn Graduation
Ceremony 19

Faculty of Engineering, the Built Environment and Technology

25 APRIL 2023 | 09:30



VISION

To be a dynamic African university, recognised for its leadership in generating cutting-edge knowledge for a sustainable future

MISSION

To offer a diverse range of life-changing education experiences for a better world

VALUES

Excellence

Respect for diversity

Ubuntu

Social justice and equality

Integrity

Sustainable stewardship

Respect
for diversity

Excellence

Ubuntu

Social justice
and equality

Integrity

Sustainable
stewardship



Contents

Vision, Mission, Values	2
Congratulatory Message	4
About Nelson Mandela University	6
Fast Facts	8
Office-Bearers of the University	9
Executive Deans of Faculties	10
Order of Proceedings	11
Graduates	12
Congratulatory Message from the Alumni Association	19
National Anthem	20



Congratulatory Message

Graduation is a significant milestone in life. It is the culmination of an academic journey that reflects your ambition, determination, commitment, perseverance, and demanding work. We know that this journey is not yours alone, as many have travelled with you. These are your friends, your lecturers, supervisors, mentors, and your family. They have invested in you financially, guided your studies, supported you and

encouraged you to keep going. But above all, they have believed in your ability to succeed and achieve this graduation dream.

Today, we celebrate not only what you have achieved, but what this promises going forward in terms of your potential as a graduate and alumnus of Nelson Mandela University.

Your education is your passport to the future – and the future hopes of our country and continent.

Indeed, education, is the foundation to a better world. As our namesake Nelson Mandela so eloquently put it:

“Education is the most powerful weapon which you can use to change the world.”

Today your joy is our joy too.

We salute and applaud your achievement and wish you every success for your future endeavours, wherever they may take you.

Congratulations!

Uthweso zidanga ludumo olubaluleke kunene ebomini. Yinkcochoyi kuhambo lwemfundo enomsila echaza ukunxanwa kwakho, ukuzimisela, ukuzinikela, ukunyamezela kwanomsebenzi otya ixesha. Siyayazi ukuba olu hambo asilolwakho kuphela, nanjengoko uninzi luthe lwakhenketha nawe. Abo ngabahlobo bakho, abahlohli bakho, amakhankatha, abacebisi, kwakunye nosapho lwakho. Batyale imali kuwe, bekukhokela kwizifundo zakho ze bakukhuthaza ukuba uqhubeke uye phambili. Kodwa ngaphezulu konke, baye bakholelwa kumandla wakho okuphumelela nokuzuza eli phupha lothweso sidanga.

Namhlanje sibhiyozela hayi nje othe wakuzuza, kodwa okulithemba lokuqhubekela phambili mayelana namandla owathweleyo njengothweswe isidanga kwaye ebengumfundi waseNelson Mandela University.

Imfundo yakho litikiti lakho elikukhokelela ebomini – kwaye ubomi obulithemba lelizwe nezwekazi lethu. Ngaphandle kwamathandabuzo, imfundo, sisiseko sehlabathi elingcono. Okanye, njengokuba eyibeka ngokucace gca uNelson Mandela xa esithi:

“Imfundo lelona krele lakhe lanamandla ongathi ulisebenzise ukutshintsha ihlabathi.”

Namhlanje uvuyo lwakho luvuyo lwethu nathi.

Dr Geraldine Fraser-Moleketi
Chancellor

Sikothulela umnqwazi kwaye sikuqhwabela izandla ngenzuzo yakho futhi sikunqwenelela impumelelo nakuso nasiphi na isigaba seenzame zobomi bakho, naphi na apho singakusa khona.

Huntshu!

Gradeplegtigheid is 'n belangrike mylpaal in die lewe. Dit is die hoogtepunt van 'n akademiese reis wat jou ambisie, vasberadenheid, toewyding, deursettingsvermoë en veeleisende werk weerspieël. Ons weet dat hierdie reis nie joune alleen is nie, aangesien baie mense saam met jou gereis het, jou vriende, jou lektore, toesighouers, mentors en jou familie. Hulle het finansieel in jou belê, jou studies gelei en jou aangemoedig om voort te gaan. Maar bowenal het hulle geglo in jou vermoë om sukses te behaal en hierdie droom om te gradueer te bereik.

Vandag vier ons nie net wat jy bereik het nie, maar ook dit wat dit vorentoe beloof in terme van jou potensiaal as 'n gegradueerde en alumnus van die Nelson Mandela Universiteit.

Jou geleerdheid is jou paspoort na die toekoms – en die toekomshoop van ons land en kontinent. Inderdaad, onderwys is die grondslag vir 'n beter wêreld. Of soos Nelson Mandela dit so welsprekend gestel het:

“Onderwys is die magtigste wapen waarmee jy die wêreld kan verander.”

Vandag is jou vreugde ook ons vreugde.

Ons salueer en loof jou prestasie en wens jou alle sukses toe vir jou toekomstige ondernemings, waar hulle jou ook al mag neem.

Veels geluk!



Professor Sibongile Muthwa
Vice-Chancellor

About Nelson Mandela University



Dynamic and forward-thinking, Nelson Mandela University is a leader in generating cutting-edge knowledge for a sustainable future.

As a socially-embedded African university in the service of society, we offer a range of life-changing educational experiences, impactful research and innovation, and transformative engagement for a better world. We strive to change the world.

All of these are rooted in and informed by recent milestones in the University's history, such as the 2017 name change to Nelson Mandela University, the Vice-Chancellor's listening campaign and her inaugural address. This name took over from Nelson Mandela Metropolitan University, which itself

was the result of the merging of the PE Technikon, the University of Port Elizabeth and the Port Elizabeth campus of Vista University.

Today Nelson Mandela University is a sought-after educational destination in South Africa and the only higher education institution in the world to carry the name of Nelson Rolihlahla Mandela.

What we offer

Along with a first-class academic education, Nelson Mandela University provides students with a vibrant student life reflecting their involvement beyond the classroom. It is all part of the drive to produce holistic graduates who are life-long learners as well as socially

conscious and responsible global citizens.

Our campuses

Our seven campuses have a large footprint in Nelson Mandela Bay and George, and this is growing. In 2022 alone, we invested three-quarters of a billion rand in campus infrastructure. It's a massive investment in both the University and in the infrastructure of the city, contributing to its economy and urban renewal.

Our campuses

Bird Street Campus

George Campus

Missionvale Campus

North Campus

Ocean Sciences Campus

Second Avenue Campus

South Campus

Six of our campuses are in Gqeberha, in Nelson Mandela Bay, in the Eastern Cape Province. Four are in Summerstrand, one is in Bird Street in Central, and one in Missionvale. Our North and South campuses in Summerstrand are on a 840-hectare private nature reserve.

The seventh – our George Campus – is on the Garden Route, midway between Nelson Mandela Bay and Cape Town. Set at the foot of the Outeniqua Mountains, our “sustainability” campus is home to two centres of excellence – the School of Natural Resource Management and the School for Business and Social Sciences. It's where our ecological footprint meets business acumen for a sustainable future.

Ground-breaking projects

Medical School

Our programme to train MBChB graduates in Gqeberha is the first and only medical school in the western part of the province. Intentionally anchored in Missionvale to engender urban renewal and regeneration, it is set to make a tangible contribution to building capacity for accessible healthcare service delivery through its emphasis

on primary health care.

Ocean Sciences

The University has developed a range of marine and maritime education and training, research, innovation and engagement programmes to support Africa's blue economy that stretch across and within disciplines. Nelson Mandela University was ranked as the top institution in South Africa for UN Sustainable Development Goal Four: Life Below Water in 2021 <https://international.mandela.ac.za/About-Us/Mandela-International-News/News/Nelson-Mandela-University-shines-in-the-Times-High>.

Revitalising the Humanities

Our critical engagement with what it means to revitalise the humanities includes a focus on decoloniality and indigenous knowledges, with a quest to awaken transdisciplinary African scholarship and systems of thought.

Engagement and Transformation

We are on a journey of engagement and transformation, using humanising pedagogy to create an environment for learning to thrive in a socially just world. In co-creating the transformative, responsive university, in part through our Hubs of Convergence, we are making a difference in our communities.

Digitalisation

We are investing significant resources in advancing digitalisation in pursuit of excellence. This includes addressing the digital divide, broadening access to mobile devices and data connectivity, and upskilling students and staff for flexible modes of learning and work.

Sustainability

The University aims to contribute to the three indivisible dimensions of sustainability – economic, social and environmental – to promote a fair, liveable and viable world. Sustainability and responsible resource stewardship are critical enablers to support our drive to be an institution in the service of society.



Fast Facts

7 **CAMPUSES**
North, South, Ocean Sciences, Second Avenue (in Summerstrand) Missionvale (Missionvale), Bird Street (Central), George (George Campus in the Garden Route)



379
PROGRAMMES
(FROM CERTIFICATE THROUGH TO DOCTORAL QUALIFICATIONS)

7 **FACULTIES**
(Business and Economic Sciences; Education; Engineering, the Built Environment and Technology; Health Sciences; Humanities; Law and Science)



30 757
ENROLLED STUDENTS

6 **INSTITUTIONAL RESEARCH THEMES**

2 254
PERMANENT EMPLOYEES



STRATEGIC FOCUS AREAS

 **727**
INTERNATIONAL STUDENTS



43
DIFFERENT COUNTRIES



Office-Bearers of the University

CHANCELLOR

Dr GJ Fraser-Moleketi: MAdmin (UP), DPhil (*honoris causa*) (Mandela University)

CHAIRPERSON OF COUNCIL

Ambassador NP January-Bardill: BA, Cert in Ed (UBL), MA (Essex University, UK), Dip HR Management (Damelin)
Doctor of Laws (*honoris causa*) (Glasgow Caledonian University)

VICE-CHANCELLOR

Prof SW Muthwa: BA(SW) (Fort Hare), BA(SW) Hons (Wits), MSc, PhD (London University, UK)

DEPUTY VICE-CHANCELLOR: ENGAGEMENT AND TRANSFORMATION

Prof A Keet: BA, HDE, BEd, MEd (UWC), PhD (Edu Manag, Law and Policy) (UP)

DEPUTY VICE-CHANCELLOR: LEARNING AND TEACHING

Dr SF Moeng (Acting): BA, HDE, BEdHons (UPE), MSc (St Cloud State University, USA), DEd (NMMU)

DEPUTY VICE-CHANCELLOR: PEOPLE AND OPERATIONS

Mr LE Hashatse: BJourn & Media, BAHons (Rhodes), MA (Edith Cowan University, Australia)

DEPUTY VICE-CHANCELLOR: RESEARCH, INNOVATION AND INTERNATIONALISATION

Dr T Mgwebi: BSc, BScHons, MSc, HDipEd (Unitra); PhD (UCT); PGDeg (Tertiary Education Management) (University of Melbourne, Australia)

DEAN OF STUDENTS

Mr LP Jack: NDip(PMA)(EC Technikon), BTech(PM)(PET), BAPhil (US), MCom (UKZN)

EXECUTIVE DIRECTOR: FINANCE

Mr MR Monaghan: BCom(UPE), BComHons (UNISA), Professional Accountant(SA)

REGISTRAR

Mr EB De Koker: BA(UCT), BAHons (UNISA), MA(Pub Admin) (University of Warwick, UK)

PRESIDENT OF ALUMNI ASSOCIATION

Mr S Hlwatika: LLB (NMMU), PGDip (Labour Law Practice), LLM (Labour Law)(Mandela University)



Executive Deans of Faculties

BUSINESS AND ECONOMIC SCIENCES

Prof HR Lloyd: BCom, BComHons, MCom, DCom (UPE)

EDUCATION

Dr T Morar (Acting): PTD (Dower College), BA (UPE), BEd Hons (RU), MEd (Leeds, UK), BCom (Vista), DEd (Curtin, Australia)

ENGINEERING, THE BUILT ENVIRONMENT AND TECHNOLOGY

Prof M Sheldon: BTech BA, DEng (Chemical Engineering) (CPUT), Pr Tech Eng

HEALTH SCIENCES

Prof Z Zingela: MBChB (Natal), FCPsych (SA), MMed (UP), PhD Psychology (Mandela Uni)

HUMANITIES

Prof P Maseko: BA, BAHons (UWC), MA, PhD, PGDip in Higher Ed (RU)

LAW

Dr L Biggs: BCom (Law), LLB(UPE), LLM (Labour Law) (Cum Laude), LLD (NMMU)

SCIENCE

Prof A Muronga: BSc, UED(UNIVEN), BScHons, MSc (UCT), PhD (University of Minnesota, USA)

DEAN OF LEARNING AND TEACHING

Dr P Kota-Nyati: BA(Vista), BAHons, MA Couns Psych (UPE), DPhil (Mandela Uni)

Order of Proceedings

Entrance of Academic Procession

Moment of Silence

Constitution of Congregation and Welcome

Vice-Chancellor

Choral Item

Nelson Mandela University Choir

Awarding of Qualifications

Vice-Chancellor

Conferring of Doctoral Degrees

Vice-Chancellor

Message of Congratulations and Dissolution of Congregation

Vice-Chancellor

National Anthem

(The congregation is requested to stand for the singing of the National Anthem)

Departure of Academic Procession

(The congregation is requested to remain standing until the academic procession has left the hall)

* The words *Cum Laude* indicate that the diploma or degree is awarded with distinction to the candidate/s listed



FACULTY OF ENGINEERING, THE BUILT ENVIRONMENT AND TECHNOLOGY

HIGHER CERTIFICATE IN MECHATRONIC ENGINEERING

BALOYI, Modimooratile Masego Atrinmoscea
BIXA, Siphelele
DEYI, Xolisa
DUBE, Arnold Sibusiso
KGOBANE, Andries Pontsho
KHONZA, Yonela
KHOWA, Amanda Innocent
KUBHEKA, Nqobile
KWEYAMA, Nombuso Noncedo
KWEZA, Phumlani
MALEMA, Tlotlo Kelvin
MALULEKE, Gavaza Samantha
MANDLA, Ntando
MANTEWU, Lihlumelo
MASOCHA, Enock Mbongeni
MAY, Lisoletu Luyolo
MAZIBUKO, Dumisa
MGWILI, Samkelisiwe
MKENTANE, Odwa
MKHOMBE, Indiphile Avela
MOTSEPE, Regoratile Rosinah
MRAMBA, Emihle
MTETWA, Mufaro Naison
MVUBU, Vusi
MWANDA, Khanyisa Lucky
MZONDI, Simlindile
NAIDOO, Rashan
NCUBE, Nkosana Junior
NGQOBE, Anelisile
NTSINJANA, Sinoxolo
NYAMBI, Fumani Glen
PHILLIPS, Luke Charles
PHOHLELI, Phohleli Pius
QAWUKA, Buhlebethu
SEANEGO, Lethabo Fortune
SELOWA, Ronald Zacharia
SOSIBO, Okuhle Zamanje
TSHIGABE, Apfeswaho Phyllis
TYUMRE, Sive
VERS, Shannon Cassidy
ZINDLO, Libo
ZONDO, Karabo

CUM LAUDE

HANSEN, Marthinus Johan
NYIKA, Alex Taka
POLLARD, Garraan
SCHUBERT, Stefan
SCHULTZ, Cole Simon
SITHEBE, Tshepo Siyabonga

HIGHER CERTIFICATE IN RENEWABLE ENERGY ENGINEERING

BEFILE, Qhama
LEBENYA, Reatisitswe
MAVUSO, Bhikikhaya Walter Prince
MCWILIKAZI, Yamkela
MODIMOENG, Thabiso Lloyd
MPHAKATHI, Zizipho
NONDWATYU, Lungisani
NONYANE, Theto Praise
XOZWA, Sisa

CUM LAUDE

ROOTE, Jarryd Michael

DIPLOMA IN OPERATIONS MANAGEMENT

BANJWA, Luzuko Claude
GROENER, Kurt Graham
HANI, Zola
HENDRICKS, Shorne Cheslen
HOBBO, Makhi Horatio
HORNE, Oren Sharnoll
HUTU, Sibusiso Stanley
KIVEDO, Russel Alexander
KOKO, Siphamandla
MAPASA, Bulelwa Lucy
MC BRYNE, Amy Leslie
MELANE, Namhla
MVETYE, Lusanda
NEL, Johann
PRINCE, Marvin Quwin
ROSSOUW, Clint Gerald
SIKO, Nyameko
STRAUSS, Lauren Ruth Lam
STROEBEL, Schalwin Roger David
VAN DER MERWE, Clive
WIGGILL, Riaan
WOJI, Dumisa Brian

NATIONAL DIPLOMA: ENGINEERING: ELECTRICAL

BAARTMAN, Zonika
BAATJES, Adrian David
BIBBY, Kelton
DANARRAH, Kumeshean
FORBES, Renoir
GIBBONS, Andrew Cedric
KROUTZ, Keegan Lyle
LE ROUX, Jordan Dylan
MABUZA, Faith Nqobile
MAFA, Qhamani
MAVUMENGWANA, Khanyisile Leernad

MJAYEZI, Anelisa
MOYANA, Lucky
NEL, Hendrik Jacobus
PHAAHLA, Emmah
ROZANA, Abulele
SIGANGA, Qayiya
SIYOYO, Zinzisa
VUTU, Simphiwe

NATIONAL DIPLOMA: ENGINEERING: INDUSTRIAL

SIKWEMBE, Tinotenda Peter

NATIONAL DIPLOMA: ENGINEERING: MECHANICAL

BAKAJANA, Mayande
BOOI, Siyabulela
KETELO, Sinawo
LOOKMANJEE, Mohammad Seifuddin
MAQUBU, Lukhanyo Patrick
MATHEBULA, Masingita
MENYE, Andisiwe Martin
MLONJI, Philani
MPHAHLELE, Tharollo Tilly
MSIZA, Sifiso Exellent
MTSWENI, Maxwell Bheki
NOMBAYINGANA, Zipo
NTLAI, Khotsofalang
OOSTHUIZEN, Ulrich Thilo
PILLAY, Deshaan
SILINGA, Mcebisi
SITSHETSHE, Pumelela
SKWEYIYA, Simamkele Patience
VAN NIEKERK, Lyle

ADVANCED DIPLOMA IN OPERATIONS MANAGEMENT

AMOD, Kemeshnee
BAILES, Darren
CORNEY, Jay Victor
HERMANUS, Siyabulela Cecil
LINDI, Samuel Xolani
MOFOKENG, Nthode Wiseman
MONQO, Vuyokazi
MTSHOZENI, Thandisizwe
TSHAKA, Nomfundo Pretticia

ADVANCED DIPLOMA IN QUALITY MANAGEMENT

CAMPBELL, Eurica Cecelia
DEPPA, Nomgcobo Patience
HANGE, Gamelihle
LUBENGU, Thembile
MAPEKULA, Cwayita
MATROOS, Enrico Cheslin
MDLETYE, Chuma
MOROE, Lerato Mokebe
MOUNTAIN, Busisiwe Gloria
MTIMKULU, Thokozani
MTINI, Thandokazi
MZINZI, Silumko
NOGCINISA, Zizipho Dorkas
NYOKA, Zikona
PETERSEN, Rinaldo Winston
SEDUPANE, Tshegofatso
SIDDALL, Christopher Adam
SMITH, Rhameez Michael
SUNDU, Nobahle
TARENTAAL, Kurtley Chad
VAN VUUREN, Brian Melvin

CUM LAUDE

MAKUPULA, Laylaa Nondima
TSHIPUKE, Mukondeleli

BACHELOR OF ENGINEERING IN MECHATRONICS

BOA-AMPONSEM, Joshua Boateng
COETZEE, Chris Johan
DABULA, Sixolisiwe
DE ODORICO, Fabio Stefano
GWATIDZO, Elisha Piyo
HORN, Russell James
JONES, Aidan Owen
KANKU, Gift Emihle
KRAUSE, Frans Johannes
LE ROUX, Ruben
MAHUPELA, Katlego Onthatile
MASIPA, Mmakgabo Janice
MAZWI, Mpumzi
MBANA, Mziwetu
MILNE, Herno
MOJAPELO, Katlego Mmanape
MULDER, Stephan
MULLER, Hans Nicholas
MZOMBA, Siyabulela
NGWIRA, Vinjeru
NIEUWOUDT, Hermias Hendrik
OAKLEY, David Edmund
PIETERSE, Vincent
PIETS, Sivuyile
POTGIETER, Ian



RAMDARI, Yuvnish
SABJEE, Kathija
SITEBA, Nkosikhona Herry
SWANEPOEL, Arno
VAN GREUNEN, Charl
VERMAAK, Francois Deo
WILLIAMS, Steyn
ZWIEGELAAR, Jan Jacques

CUM LAUDE

ELS, Dennis

BACHELOR OF ENGINEERING TECHNOLOGY IN ELECTRICAL ENGINEERING

BOTHA, Ruan Albert
DABA, Lungisa
DIKO, Enathi Somsa
DU PLESSIS, Rudi Arno
DU PREEZ, Edmar Daniel
DUFFIELD, Dylan Zane
KOCH, Ulrich
LENGISI, Kamva
MABUNDA, Pleasure Freedom
MEMELA, Yibanathi
MGWENYA, Sibusiso Hopewell
MJOBO, Sizolwethu
MLUNGISI, Simnikiwe
NDLOVU, Nombulelo Petunia
SEBETSEBA, Gomolemo
SIQHAZA, Sibahle
SIYEKA, Sithule
STRYDOM, Stefan
THULARE, Mthobisi Thabang
ZANA, Ulitar

CUM LAUDE

BOTHA, Tian Leon
CHIKOSHA, Tanyaradzwa
LUNIKA, Justice Kukhanya

BACHELOR OF ENGINEERING TECHNOLOGY IN INDUSTRIAL ENGINEERING

APRIL, Avuyile
BYACANDA, Lea-Sophie Malaika
CHIJABVU, Takudzwa Blessed
HASSIM, Zuraïda
JEREMIAH, Ongezwa Jeanette
KHOZA, Stella
KHUMALO, Msizi Ntokozo
LAWLOR, Kaylee Elizabeth
LETESE, Masibulele
LOOCK, Magdel
MACI, Siseko
MAJOLA, Yolisa

MALEKA, Adam Maboe
MEMELA, Kuphila
MNYANDA, Asiphe
NAPIER, Nicholas
NDONGENI, Yandisa
PAUL, Nishal
PINHO, Edmilson
POTGIETER, Johann Ernst
TSHIFULARO, Apfeswaho
VAN JAARSVELD, Inge
WILLEMSE, Johannes Jochemis

CUM LAUDE

RAUTENBACH, Gerrit

BACHELOR OF ENGINEERING TECHNOLOGY IN MARINE ENGINEERING

LETSASA, Thoko Sylvia
MAHUWA, Rotondwa
MATHEBULA, Welcome Emmanuel
MODISE, Boikhutso Sam
MQEKELA, Thamsanqa
MULAUDZI, Usiriisemilingoni
NAUDE, Jonathan David
SEBOPA, Karabo Elias
SITHEBE, Mzuvukile Phillip
SLABBERT, Todd Evert
VALENTIN, Willem Jac

BACHELOR OF ENGINEERING TECHNOLOGY IN MECHANICAL ENGINEERING

ABRAHAMS, Kalen Wayne
BELE, Spumelele
BRACKSTONE, Peter David
CHIPETA, Nelson Adams
DAYCE, Daylan
GRÄTZ, Jarod Aidan
HEIN, Bradley
HOFFMAN, Ross Adam
HOLMES, Logan Clinton
JACOBS, Ryan George
KHOSA, Kurisani
KHOZA, Tyron
KNIGHT, Luken
KUNENE, Khayaletu
LANGKOP, Onwabile Agreement
MABONO, Kamva
MAPEKULA, Sisipho Lwazi
MAPONYANE, Tswelopele Mogotlhwane
MASHABANE, Xolani Andy
MBHELE, Ntokozo
MBUBE, Ntlahtla Thompson
MGOGOTI, Yanga
MILLER, Joshua

MONYAKI, Thato
MXABO, Aviwe
NKONYANA, Sibabalwe
NTIPHA, Masikhonzane
NTSHONGWANA, Yamkela
PAULS, Brad
PILLAY, Brandon - Lee
POTGIETER, William Eaton
PRINSLOO, Jared Bradley
RAMAILA, Rabogoping Lehlogonolo
RENSBURG, Joshua Erran Dennis
SADANAND, Keanu Prajen
SALMANI, Siyabonga
SATEKGE, Joshua
SIPANI, Thabang
SITSHWALA, Aviwe
XONGO, Zikhona
ZAKHELE, Bavuyise

CUM LAUDE

ANDERSON, Cameron
AUSTIN, James
GRUNEWALD, Cameron Theo
MUNERI, Mukhethwa Christopher

BACHELOR OF TECHNOLOGY: ENGINEERING: ELECTRICAL

AMERICA, Jesse Amber
ANDRIES, Thato
BOVUNGAN, Phikolomzi
GCUMA, Zizile Perfect
GROBLER, Wesley
KAPELA, Siphamandla
MAQHASHU, Yonela
MARAIS, Neal
MASWANA, Ayabulela
MFINIZA, Kwalunga
MNXEBA, Asinakho Kate
MOTSOARE, Ebenezer Hulisani
MSUTHU, Ntombovuyo Cynthia
NAKUMBA, Mvelo
PARBHOO, Ajay Avinash
PONI, Anathi
RIGALA, Banele
SABA, Batho Mzuvelile
SCHMIDT, Cornelius Ruan
SCHOLTZ, Aubrey
SCHWARK, Justin
SIQENDU, Siphesihle
SITEMELE, Ntombodumo Valencia

TSHANGELA, Nkosivumile
TWAZI, Luxolo
VAN APPEL, Jacobus Marthinus
VAN SCHALKWYK, Adriaan Willem

BACHELOR OF TECHNOLOGY: ENGINEERING: MECHANICAL

ADAMS, Alec
BEJE, Asiphe
MABUNDA, Kulani Comfort
MAGAM, Zanozuko Winston
MERANA, Nathi Wandile
MOYO, Vhutshilo
NDALAMO, Musengeli
NTSALAZE, Buhlebenkosi Siviwe Nqwenelo
SUFEYAN, Tawfeeq Achmat
TSHIDAVHU, Tshilidzi

BACHELOR OF ENGINEERING TECHNOLOGY HONOURS IN ELECTRICAL ENGINEERING

CHITONGO, Zvikomborero

BACHELOR OF ENGINEERING TECHNOLOGY HONOURS IN INDUSTRIAL ENGINEERING

BECKETT, Khaalid
MABASA, Xihlovo
MATSEKA, Leaowa Lucius
NABO, Inga
NGWENYA, Amanda Noxolo
WATTRUS, Joshua Ryan

BACHELOR OF ENGINEERING TECHNOLOGY HONOURS IN MECHANICAL ENGINEERING

BOTHA, Jesse
KHOZA, Sabelo Innocent
KLEINLUGTENBELT, Alexander
MCCALLUM, David Alexander
O'CONNOR, Storm Devin Peter
PHATLHANYANE, Lucia Kefilwe
SAPTOE, Josua Peter
VAN ASWEGEN, Wian Cornelius

CUM LAUDE

JACK, Brian Robert Linton
LOUIS, Chanee



MASTER OF ENGINEERING (RESEARCH)

TAMBRO, Boniface Kangire

(Mechanical)

Title of dissertation:

ANAEROBIC PROCESS FORMULATION FOR METHANE PRODUCTION DURING DRY FERMENTATION OF ACACIA MEARNSII (BLACK WATTLE) FEEDSTOCK

Supervisor: Prof C van Zyl

Co-supervisor: Prof DG Hattingh

VIVIERS, Amy Bronwan

(Mechanical)

Title of dissertation:

VALIDATION OF SMALL PUNCH TESTING METHODOLOGY TO DETERMINE THE VARIATION IN STATIC PROPERTIES OVER THE BUILD HEIGHT OF Ti-6Al-4V LASER METAL DEPOSITION SAMPLES

Supervisor: Prof DG Hattingh

DOCTOR OF PHILOSOPHY IN ENGINEERING

FERNANDES, John Manuel

(Mechatronics)

Title of thesis:

NAVIGATION MODELLING AND ANALYSIS FOR SEMI-AUTONOMOUS VEHICLES TOWARDS INDUSTRY 4.0

Supervisor: Prof TI van Niekerk



THE DEGREE OF DOCTOR OF PHILOSOPHY IN ENGINEERING: (MECHATRONICS)

JOHN MANUEL FERNANDES

Previous qualifications:

2010 BTech: Electrical Engineering
2014 MEng: Mechatronics Engineering

Nelson Mandela Metropolitan University
Nelson Mandela Metropolitan University



Thesis:

NAVIGATION MODELLING AND ANALYSIS FOR SEMI-AUTONOMOUS VEHICLES TOWARDS INDUSTRY 4.0

In this study, an Industry 4.0-compliant AGV is developed as a prospective solution for improving material handling systems. The AGV is capable of performing complex motion profiles through a semi-autonomous navigation strategy. In addition, the AGV is integrated into a modern network architecture ideal for deploying IoT microservices. Quality assurance is achieved through compliance with international functional safety standards. Furthermore, a reliability model of the AGV is developed that highlights potential areas for improvement in the AGVs design. The research findings confirm that the AGV is capable of handling advanced, highly flexible tasks, thus positioning it as a promising technology for the future factory.

Supervisor: Prof TI van Niekerk

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Congratulations on your academic achievement!

Welcome to the Nelson Mandela University family. You are now a Nelson Mandela University alumna/us.

We would like to take this opportunity to introduce you to the Nelson Mandela University Alumni Association.

Once you have obtained your Nelson Mandela University certificate, diploma or degree you become an alumna/ us of the University and a member of the Nelson Mandela University Alumni Association. The Association is approved by the University Council as a structure of the University. The Association supports and enhances the realisation of the University's vision and mission through maintaining and expanding positive relationships with its members.

The Role of the Alumni Association Office

The Alumni Relations Office (ARO) is responsible for alumni engagement and the day-to-day management and running of the Alumni Association, the University Shop and all matters related to alumni as a stakeholder group. Primarily, the ARO builds relationships and maintain strong links with graduates, parents, friends and supporters of the University through events, newsletters, social media, the alumni and friends magazine Thetha and services.

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More info: T +27 41 504 3935 E alumni@mandela.ac.za

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NATIONAL ANTHEM

Nkosi Sikelel'i-Afrika,
Maluphakanyisw'uphondo lwayo,
Yizwa imithandazo yethu,
Nkosi Sikelela, thina lusapho lwayo.

Morena boloka setjhaba sa heso,
O fedise dintwa le matshwenyeho.
O se boloke, O se boloke setjhaba sa heso,
Setjhaba sa South Africa.

South Africa.

Uit die blou van onse hemel,
Uit die diepte van ons see.
Oor ons ewige gebergtes
Waar die kranse antwoord gee.

Sounds the call to come together,
And united we shall stand.
Let us live and strive for freedom,
In South Africa our land.

Change the World

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PO Box 77000, Nelson Mandela University, Gqeberha, 6031.

T 041 504 1111 (Gqeberha) **T** 044 801 5111 (George)

E info@mandelauniversity.ac.za

