



UNIVERSITY OF ZIMBABWE

FACULTY OF COMPUTER ENGINEERING
INFORMATICS AND COMMUNICATIONS

Chairperson, Computer Science Department
T. Rupere

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Website: <https://www.uz.ac.zw>

30th April 2026

TO WHOM IT MAY CONCERN

Dear Sir/Madam

RE: INDUSTRIAL ATTACHMENT (WORK-RELATED LEARNING) PLACEMENT:
T-MHLANGA.....STUDENT REGISTRATION NUMBER: R.2420251

The Department of Computer Science, University of Zimbabwe (UZ), is applying for (Work Related Learning) industrial attachment placement in your organization on behalf of the above-named student, who is currently studying for the BSc Honours Computer Science/ BSc Honours Artificial Intelligence and Machine Learning/ BSc Honours Cloud Computing and Internet of Things. The (Work Related Learning) industrial attachment is for the period August 2026 to August 2027 and is in partial fulfilment of the requirements of the degree programme.

Inter-alia, the (Work Related Learning) Industrial Attachment will afford the student an opportunity to apply theory and to practice and to prepare the student for professional growth and development. It is against this backdrop that your decision to take the student on (Work Related Learning) Industrial Attachment will be greatly appreciated.

During this period, the student is expected to abide by your organization's rules and regulations. For any further information, please contact the Chairperson via email at trupere@ceic.uz.ac.zw.

I look forward to your favourable response.

Yours sincerely,

MR. T. RUPERE

(HEAD OF DEPARTMENT)



TREVOR MHLANGA

Artificial Intelligence & Machine Learning Student

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GitHub: github.com/trevormhlanga120 | LinkedIn: linkedin.com/in/trevor-mhlanga-470615343

Portfolio: trevormhlanga120.github.io/Elza-Tech | Facebook: facebook.com/profile.php?id=61577769374347

Google Business Profile: Elza Technologies

COVER LETTER

15 June 2026

The Human Resources Manager

RE: APPLICATION FOR INDUSTRIAL ATTACHMENT / INTERNSHIP PLACEMENT

Dear Sir/Madam,

I am a second-year Bachelor of Science Honours student in Artificial Intelligence and Machine Learning at the University of Zimbabwe seeking an Industrial Attachment position as part of my degree programme.

I have practical experience in Artificial Intelligence, Machine Learning, Software Engineering, Full-Stack Web Development, Mobile Application Development, Data Analytics, and IoT Systems. Through my role as Founder and Lead Developer at Elza Technologies, I have successfully contributed to software and web development projects for clients across Zimbabwe and South Africa, gaining experience in system development, testing, deployment, maintenance, and technical support.

I have also completed professional certifications including Harvard University's CS50 Introduction to Artificial Intelligence with Python, the Deep Learning Specialization by DeepLearning.AI and Coursera, ICDL Certification, and participated in the Deep Learning IndabaX Zimbabwe 2026 Hackathon focused on Banking and Financial Inclusion.

I would welcome the opportunity to apply my skills, gain industry experience, and contribute positively to your organisation. Thank you for your time and consideration.

Yours faithfully,

TREVOR MHLANGA

PROFILE

Motivated Bachelor of Science Honours student in Artificial Intelligence and Machine Learning at the University of Zimbabwe with practical experience in software engineering, artificial intelligence, machine learning, data analytics, full-stack web development, mobile application development, embedded systems, and Internet of Things (IoT) solutions.

Founder and Lead Developer of Elza Technologies, having successfully delivered and contributed to 8+ software and web development projects for clients across Zimbabwe and South Africa in industries including logistics, solar energy, agriculture, construction, beauty, investment, and maintenance services.

Experienced in the complete software development lifecycle including requirements gathering, system design, frontend development, backend development, database design, testing, deployment, maintenance, troubleshooting, and technical support.

Passionate about building intelligent systems and practical technology solutions that solve real-world business and community challenges through innovation, teamwork, and continuous learning.

EDUCATION

Bachelor of Science Honours Degree in Artificial Intelligence and Machine Learning
University of Zimbabwe
Academic Year 2 | Registration Number: R2420251

Strong academic performance with multiple distinction-level (Classification 1) and upper second-class (2.1) results. Official result slips are appended unchanged at the end of this package.

CERTIFICATIONS

Deep Learning Specialization

[DeepLearning.AI & Coursera](#)

- Advanced training in Neural Networks, Deep Learning, Convolutional Neural Networks, Sequence Models, Hyperparameter Tuning, and AI Systems Development.

CS50's Introduction to Artificial Intelligence with Python

[Harvard University](#)

- Completed practical projects covering Machine Learning, Search Algorithms, Neural Networks, Computer Vision, and Natural Language Processing.

Deep Learning IndabaX Zimbabwe 2026 Hackathon

Certificate of Participation

- Participated in model development and practical Artificial Intelligence solutions for Banking and Financial Inclusion.

International Computer Driving Licence (ICDL)

- Certified in Digital Literacy, Computer Applications, Information Technology Fundamentals, and Office Productivity Tools.

TECHNICAL SKILLS

Programming Languages

Python • Java • JavaScript • TypeScript • PHP • SQL • C/C++

Artificial Intelligence & Data Analytics

Machine Learning • Deep Learning • Neural Networks • Computer Vision • Natural Language Processing • Reinforcement Learning • Predictive Analytics • Data Science • Sentiment Analysis • Intelligent Recommendation Systems

Machine Learning Frameworks

TensorFlow • PyTorch • Scikit-Learn • YOLO • Pandas • NumPy • Matplotlib • OpenCV

Software Engineering

HTML • CSS • React • Node.js • Laravel • Django • FastAPI • Flutter • REST API Development • Full-Stack Development

Databases

MySQL • Database Design • Database Development

Embedded Systems & IoT

ESP32 • Arduino • C/C++ • Sensor Integration • Hardware Interfacing • Internet of Things

Tools & Platforms

Git • GitHub • Linux • VS Code • Postman • AI-Assisted Development Tools

PROJECTS

FairWatt – AI-Powered Smart Electricity Monitoring and Recommendation System(Team project)

Designed and developed an intelligent electricity monitoring system for multi-tenant households that tracks electricity consumption, analyses usage patterns, and generates recommendations to improve energy efficiency and reduce billing disputes between landlords and tenants.

Vehicle Counting System(VCS)

Developed a computer vision solution that automatically detects and counts vehicles from video footage, providing traffic monitoring and transportation analytics for data-driven decision-making.

People Counting System(PCS)

Developed an intelligent monitoring system that detects and counts individuals entering or leaving a designated area, enabling occupancy analysis, crowd monitoring, and visitor tracking.

Personal Protective Equipment (PPE) Compliance Detection System

Developed a workplace safety monitoring system that uses computer vision to automatically detect whether workers are wearing required Personal Protective Equipment (PPE) such as helmets, reflective jackets, safety gloves, and safety boots.

Poker Hand Recognition System

Developed an image recognition system capable of identifying playing cards from images and automatically determining the corresponding poker hand using computer vision and machine learning techniques.

Object Detection System

Developed an artificial intelligence application capable of locating, classifying, and tracking multiple objects within images and video streams for real-time monitoring and automation applications.

Image Classification System

Developed a deep learning model capable of automatically categorizing images into predefined classes, enabling intelligent image organization and visual content analysis.

Sentiment Analysis System

Developed a Natural Language Processing (NLP) solution that analyses customer reviews, social media posts, and textual feedback to determine whether opinions are positive, negative, or neutral.

Text Classification System

Developed a machine learning model that automatically categorizes textual documents into predefined categories, improving information organization and retrieval.

Intelligent Recommendation System

Developed a recommendation engine that analyses user preferences and behavioural patterns to generate personalized product, content, or service recommendations.

Predictive Analytics System

Developed machine learning models that analyse historical data to identify trends, forecast future outcomes, and support data-driven decision-making processes.

Truck Logistics Mobile Platform

Developed a digital freight marketplace that connects truck owners with customers seeking transportation services, enabling vehicle discovery, trip booking, location tracking, and logistics management through a mobile application.

BRYN Auto Electrical Website (South Africa)

Designed and developed the official company website to showcase automotive electrical services, improve online visibility, and provide customers with accessible business information and contact channels.

WORK EXPERIENCE

Founder & Lead Developer

Elza Technologies | Harare, Zimbabwe | 2023 – Present

- Founded and currently lead a software development and technology solutions company.
- Successfully delivered and contributed to 9+ software and web development projects across Zimbabwe and South Africa.
- Designed, developed, tested, deployed, and maintained business systems, websites, APIs, intelligent applications, and digital platforms.
- Managed requirements gathering, software architecture, frontend development, backend development, database design, deployment, maintenance, troubleshooting, and technical support.

Britem Solar Installation (South Africa) | 2023-Present

Position: Web Developer, Tester & Deployment Support

Executive Contact: Mr Themba Mhlanga | +27 71 021 7804

- Designed, developed, tested, deployed, and maintained the company website.
- Implemented new features, resolved technical issues, and provided ongoing support.

Moving Truck Rental Near Me (South Africa) | 2024-Present

Position: Web Developer, Tester & Deployment Support

Executive Contact: Mrs Bridget Chikono | +27 71 021 7804 / +27 61 453 1334

- Developed and maintained the company's truck rental platform.
- Implemented booking workflows, deployment processes, maintenance activities, and system enhancements.

Agri Tunnels (South Africa) | 2024

Position: Website Maintenance & System Customisation Specialist

Executive Contact: Mr Tinashe Matare | +27 74 435 5094

- Customized and maintained business systems while implementing requested functionality improvements and technical updates.

Hair Doc Salon(South Africa) | 2025 -2026

Position: Software Developer

Executive Contact: Mrs Sharon Mashizha | +27 67 034 3809

- Developed software solutions supporting customer engagement, service management, and salon operations.

Action Top Investments(South Africa) 2024 -2025

Position: Software Developer

Executive Contact: Mr Mapiri | +27 78 545 8261

- Developed and maintained digital business systems while implementing custom business requirements and technical improvements.

Royal Tech Maintenance(South Africa) 2024 - 2025

Position: Software Developer

Executive Contact: Mr Lovejoy | +27 83 389 7644

- Developed, deployed, tested, and maintained business software solutions while providing ongoing technical support.

Mystical Construction(South Africa) 2026

Position: Web Developer

Executive Contact: Mr Tinsoft | +263 71 845 3808

- Designed and developed the company website to improve online visibility and customer engagement.

Beauty Mark 2026(South Africa)

Position: Software Developer

Executive Contact: Mr Prince | +27 61 975 4740

- Developed a digital business management platform focused on customer engagement, service management, and operational workflows.

STRENGTHS & PERSONAL ATTRIBUTES

Leadership • Team Collaboration • Problem Solving • Communication • Adaptability • Fast Learner • Analytical Thinking • Critical Thinking • Innovation • Reliability • Professionalism • Technical Documentation

INTERESTS

Artificial Intelligence • Machine Learning • Data Analytics • Computer Vision • Natural Language Processing • Software Engineering • Mobile Application Development • Internet of Things • Business Automation • Entrepreneurship

REFERENCES

Mr M. Munyaradzi

Lecturer, department of Computer Science University of Zimbabwe

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Phone:+263 772390828

MR T RUPERE

Computer Science Department Chairperson ,University Of Zimbabwe

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MR MURAMBA

Lecturer, department of Computer Science University of Zimbabwe

Phone: +263 774110024

Additional professional references available through the executive contacts listed under work experience.

UNIVERSITY OF ZIMBABWE ONLINE EXAMINATION RESULT SLIP

REGISTRATION NUMBER: R2420251

STUDENT NAME: Mr T Mhlanga

ADDRESS: Mubvigwi

PROGRAMME: BACHELOR OF SCIENCE HONOURS DEGREE IN ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING(HAI)

ACADEMIC YEAR: 2



YEAR: 2024

CODE	NAME	RESULT	CLASSIFICATION	SEMESTER
HAI111	DATA STRUCTURES AND ALGORITHMS	P	2.1	2
HAI112	ELECTRICAL AND ELECTRONIC PRINCIPLES	P	1	2
HAI113	WEB AND MOBILE DEVELOPMENT	P	1	2
HAI114	DATABASE DESIGN AND DEVELOPMENT	P	2.1	2
LAICCEIP O100	LANGUAGE ACQUISITION AND INTERCULTURAL COMMUNICATION FOR FACULTY OF COMPUTER ENGINEERING AND INFORMATICS: PORTUGUESE	P	2.1	2
SDLSCE1 01	STUDENT DEVELOPMENT AND LIFE SKILLS	P	2.1	2
HAI101	Programming Fundamentals	P	1	1
HAI102	STATISTICS FOR COMPUTER SCIENCE	P	1	1
HAI103	CALCULUS	P	2.1	1
HAI104	LINEAR ALGEBRA	P	1	1
IDCE101	INFORMATION AND DIGITAL SKILLS	P	2.1	1

YEAR: 2025

CODE	NAME	RESULT	CLASSIFICATION	SEMESTER
CCLSCE2 01	CRITICAL CONSCIOUSNESS AND LIFE SKILLS	P	1	1
HAI201	OBJECT ORIENTED PROGRAMMING	P	1	1
HAI202	SOFTWARE ENGINEERING	P	2.1	1
HAI203	Artificial Intelligence and Expert Systems	P	2.2	1
HAI204	Discrete Mathematics	P	1	1

YEAR: 2025

CODE	NAME	RESULT	CLASSIFICATION	SEMESTER
SDLSCE2 01	STUDENT DEVELOPMENT AND LIFE SKILLS	P	1	2
RCE301	RESEARCH AND INNOVATION SKILLS	P	2.1	2
HAI212	MACHINE LEARNING	P	1	2
HAI211	DATA COMMUNICATIONS AND COMPUTER NETWORKS	P	1	2

YEAR: 2025

CODE	NAME	RESULT	CLASSIFICATION	SEMESTER
HAI214	PHYSICAL COMPUTING AND THE INTERNET OF THINGS	P	2.1	2

YEAR:2025

CODE	NAME	RESULT	CLASSIFICATION	SEMESTER
HAI213	OPERATING SYSTEMS AND COMPUTER ARCHITECTURE		TO BE RELEASED	2
LAICCEI ND200	LANGUAGE ACQUISITION AND INTERCULTURAL COMMUNICATION FOR FACULTY OF COMPUTER ENGINEERING AND INFORMATICS - NDEBELE		TO BE RELEASED	2