

Eyasu Berhane Habte

📍 Merketalstraße 48a, 99425 Weimar, Germany

✉ eyasuberhanehabte@gmail.com

☎ +49 1631536455

🐙 [Giub](#)



EDUCATION

Master's in Digital Engineering (Engineering & Computer Science) | Bauhaus University | Germany
Oct 2022 to Present

- GIS, Machine Learning, Computer vision, Image analysis and Object Recognition, Simulation in Engineering, Software Engineering, Algorithm and Data Structure, OOP, Computer modeling for physical processes, Statistics, Stochastics simulation techniques

Master's in Environmental Engineering | Padova University | Italy | (Not Completed) Oct 2021 to Jul 2022

- Marine and Hydropower Energy, Remediation of contaminated sites, Environmental Economics

Bachelor of Science in Civil Engineering | EIT | Eritrea Sep 2012 to Jun 2017

- Hydrology, Hydraulics, Water resource development & management, Environmental Engineering, Water and Wastewater treatment, Soil Mechanics, , Architectural & Urban planning, Structural analysis,

PROFESSIONAL EXPERIENCE

Water resource management Ministry of Land, Water and Environment Aug 2017- Oct 2019

- Conducted hydrological assessments for water resource management projects, evaluating the impact of extreme weather events such as floods and droughts on water systems.
- Collaborated with cross-functional teams to design and implement sustainable water management solutions, including flood mitigation and drought resilience strategies for regional infrastructure.
- Coordinated field data collection and site assessments, working with local teams to evaluate the effectiveness of existing water management systems and identify areas for improvement.

Civil Engineering Software Instructor | Dynamic Computer Center | Eritrea Feb 2018- Sep 2019

- AutoCAD and STAAD PRO.

DIGITAL SKILLS

- **Programming Languages:** Python, R, MATLAB, LaTeX
- **Data Science:** NumPy, Pandas, Matplotlib, Seaborn, SciPy, Scikit-learn, web scraping
- **ML & NLP:** TensorFlow, Keras, PyTorch, NLTK, spaCy, Gensim, Hugging Face Transformers
- **Data Visualization:** Power BI, Plotly, ggplot2, Microsoft Office

MODELLING AND SIMULATION SKILLS

- QGIS, Anylogic, Revit, AutoCAD, PTV Visum

COMMUNICATION SKILLS

- Excellent verbal and written communication skills
- Excellent teamwork skills and ability to work with co-workers and individually

LEADERSHIP AND AWARDS

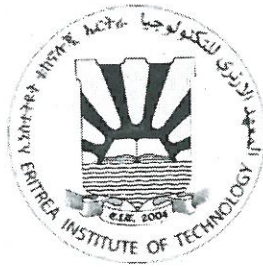
- Full MSc Scholarship from German Academic Exchange Service (DAAD) **Oct 2022 – Oct 2024**
- LEAD! Leadership for Africa | University of Cologne| Germany **Mar 2024**

LANGUAGE

- English (C2), German (A2), Mother Tonge Tigrigna and Amharic

CERTIFICATION FOR MACHINE LEARNING AND AI

- [Data Science](#)
- [Machine Learning Specialization](#)
- [Deep Learning Specialization](#)
- [Data Analysis with R](#)
- [Generative AI with LLM](#)



ERITREA INSTITUTE OF TECHNOLOGY COLLEGE OF ENGINEERING & TECHNOLOGY

Ref: Reg/TD8757/12/439

Date: 12/09/2019

TEMPORARY CERTIFICATE OF GRADUATION



Eyasu Berhane Habte

HAS BEEN AWARDED

BSc Degree

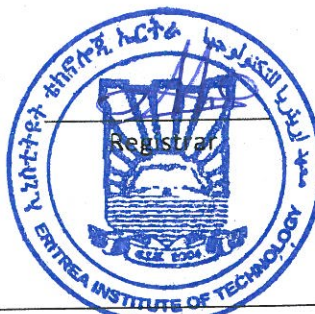
IN

Civil Engineering

ON

07/07/2018

This certificate of Graduation has been given pending the printing and issuance of the actual BSc Degree





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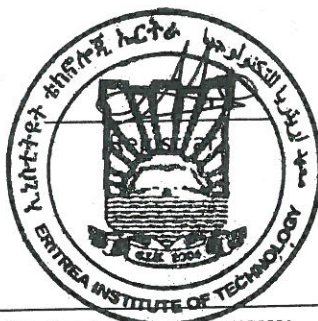
ON

07/07/2018

Ministry of Foreign Affairs
Consular & Community Dep.
Date 17-09-2019
For Edw
Ref No. 110732
Fee 2000
Signature [Signature]



This certificate of Graduation has been given pending the printing and issuance of the actual BSc Degree





ERITREA INSTITUTE OF TECHNOLOGY
COLLEGE OF ENGINEERING & TECHNOLOGY
OFFICIAL STUDENT RECORD

Department of Civil Engineering

Admission Date:
September, 2012
 BSc Degree Awarded on:
07/07/2018

Major: Civil Engineering (BSc Degree)

Student: Eyasu Berhane Habte		ID No: 12/439	Sex: Male	Birth Date: 21/12/1994	
Course Code	Course Title	Cr.Hr.	Grade	G.Pt.	Remark
Academic Year: 2012/2013		Year: 1	Semester: I		
Chem 101	General Chemistry-I	3	B	9	
Coen 101	Introduction to Computers	3	B	9	
Eeen 101	Basic Electrical Science-I	2	B	6	
Engl 101	Freshman English – I	3	A	12	
Math 101	Preliminary Mathematics	4	A	16	
Phys 101	General Physics-I	3	A	12	
Semester: C.Hr.: 18		G.Pt.: 64	GPA: 3.56	Cumulative GPA: 3.56	
Academic Year: 2012/2013		Year: 1	Semester: II		
Chem 102	General Chemistry-II	3	B	9	
Coen 102	Matlab for Appl. Eng. Applications	3	B	9	
Engl 102	Freshman English – II	3	A	12	
Math 162	Introduction to Calculus	4	A	16	
Meen 102	Basic Mechanical Engineering	2	B	6	
Phys 102	General Physics-II	3	A	12	
Semester: C.Hr.: 18		G.Pt.: 64	GPA: 3.56	Cumulative GPA: 3.56	
Academic Year: 2013/2014		Year: 2	Semester: I		
Cien 211	Surveying I	3	A	12	
Meen 211	Engineering Drawing-I	2	A	8	
Cien 241	Engineering Mechanics-I (statics)	3	A	12	
Cien 291	Surveying Lab-I	1	A	4	
Coen 213	Advanced C-programming	3	B	9	
Engl 201	Sophomore English-I	3	A	12	
Math 231	Applied Mathematics-I	4	A	16	
Semester: C.Hr.: 19		G.Pt.: 73	GPA: 3.84	Cumulative GPA: 3.65	
Academic Year: 2013/2014		Year: 2	Semester: II		
Cien 212	Surveying II	3	A	12	
Cien 232	Hydraulics-I	3	A	12	
Cien 242	Strength of Materials-I	3	A	12	
Cien 292	Surveying Lab-II	1	A	4	
Math 232	Applied Mathematics-II	4	A	16	
Meen 214	Technical Drawing	3	A	12	
Meen 222	Engineering Mechanics-II	3	B	9	
Semester: C.Hr.: 20		G.Pt.: 77	GPA: 3.85	Cumulative GPA: 3.71	
Academic Year: 2014/2015		Year: 3	Semester: I		
Cien 321	Construction Materials	3	A	12	
Cien 331	Hydraulics-II	3	A	12	
Cien 341	Strength of Materials-II	3	A	12	
Cien 381	Engineering Geology	3	A	12	
Cien 391	Construction Materials Lab	1	A	4	
Cien 393	Hydraulics Lab	1	A	4	
Math 331	Applied Mathematics-III	4	A	16	
Semester: C.Hr.: 18		G.Pt.: 72	GPA: 4.00	Cumulative GPA: 3.76	
Academic Year: 2014/2015		Year: 3	Semester: II		
Cien 302	Civil Engineering Drawing	3	A	12	
Cien 322	Building Construction	3	A	12	

Student: Eyasu Berhane Habte		ID No: 12/439	Sex: Male	Birth Date: 21/12/1994	
Course Code	Course Title	Cr.Hr.	Grade	G.Pt.	Remark
Cien 324	Quantity Surveying	3	A	12	
Cien 332	Engineering Hydrology	3	A	12	
Cien 342	Structural Analysis I	3	A	12	
Cien 352	Soil Mechanics -I	3	B	9	
Semester: C.Hr.: 18		G.Pt.: 69	GPA: 3.83	Cumulative GPA: 3.77	
Academic Year: 2015/2016		Year: 4	Semester: I		
Cien 441	Structural Analysis II	3	A	12	
Cien 443	Reinforced Concrete Structures I	3	A	12	
Cien 451	Soil Mechanics -II	3	B	9	
Cien 453	Highway Engineering I	3	A	12	
Cien 461	Water Supply & Waste water collection	3	B	9	
Cien 471	Architectural & Urban Planning	3	A	12	
Semester: C.Hr.:18		G.Pt.: 66	GPA: 3.67	Cumulative GPA: 3.76	
Academic Year: 2015/2016		Year: 4	Semester: II		
Cien 432	Hydraulic Structure-I	3	A	12	
Cien 442	Reinforced Concrete Structures II	3	A	12	
Cien 452	Foundation Engineering I	3	B	9	
Cien 454	Highway Engineering II	3	A	12	
Cien 462	Water and Waste Water Treatment	3	A	12	
Engl 202	Sophomore English-II	3	A	12	
Semester: C.Hr.:18		G.Pt.: 69	GPA: 3.83	Cumulative GPA: 3.77	
Academic Year: 2016/2017		Year: 5	Semester: I		
Cien 521	Construction Equipment, Planning & Management	3	A	12	
Cien 531	Hydraulic Structure-II	3	A	12	
Cien 541	Design of Steel Structures	3	A	12	
Cien 551	Foundation Engineering II	3	A	12	
Cien 561	Environmental Engineering	3	A	12	
Cien 581	Civil Engineering Software	3	A	12	
Semester: C.Hr.: 18		G.Pt.: 72	GPA: 4.00	Cumulative GPA: 3.79	
Academic Year: 2016/2017		Year: 5	Semester: II		
Cien 502	Engineering Economics & Construction Management	3	B	9	
Cien 534	Water Resource Development & Management	3	A	12	
Cien 542	Bridge Design	3	A	12	
Cien 544	Building Design (Structural, Electrical & Sanitary)	2	A	8	
Cien 545	Pre-stressed Concrete Structures	2	B	6	
Cien 563	Project Work	4	A	16	
Semester: C.Hr.: 17		G.Pt.: 63	GPA: 3.71	Cumulative GPA: 3.79	
Total Semester Award:		Cr.Hrs: 182	G.Pt: 689	CGPA: 3.79	

N.B. Medium of Instruction is English Language.

Grading System:

A = Excellent, B = Good, C = Satisfactory, D = Unsatisfactory, F = Failing, I = Incomplete

Grade Points:

A= 4, B= 3, C= 2, D= 1, F= 0

One credit-hour is one lecture hour or recitation of two to three hours of laboratory work per week for the duration of the course.

- **THIS TRANSCRIPT IS OFFICIAL ONLY WHEN SIGNED AND SEALED BY THE REGISTRAR.**
- **NOT VALID IF OFFICIAL TRANSCRIPT IS HANDLED BY APPLICANT.**



12/09/2019

Date of Issue

TRANSCRIPT OF RECORDS

Degree Programm Digital Engineering
Desired Degree Master of Science

Name, First Name Habte, Eyasu Berhane
Matriculation Number 125461
Date of Birth (dd.mm.yyyy) 21.12.1994
Place of Birth Addis Abeba, Eritrea

Exam. Number	Examination	Semester	Mark	Status	Credits	Attempt
2000	Modules					
2100	Fundamentals					
301005	Statistics	SoSe 24	1.7	P	6.0	1
303005	Object-oriented Modeling and Programming in Engineering	WiSe 22/23	1.6	P	6.0	1
555211	Algorithms and Data Structures	SoSe 23	2.3	P	6.0	1
417290000	Software Engineering	SoSe 23	3.1	P	6.0	1
2200	Modelling					
303001	Advanced Building Information Modelling	SoSe 23	2.1	P	6.0	1
439100	Spatial Information Systems (GIS)	WiSe 22/23	1.7	P	4.5	1
419240046	Raumbezogene Informationssysteme / Spatial Information Systems (GIS) - Final Project	WiSe 22/23	1.7	P	1.5	1
420250037	Computer Models for Physical Processes - from observation to simulation	WiSe 23/24	1.3	P	6.0	1
2300	Simulation and Validation					

Abbreviations

WiSe	Winter Semester	Exam.	Examination	F	Failed
SoSe	Summer Semester	P	Passed	FF	Failed at Final Attempt

Grading Scheme

The grading scheme usually comprises five levels (with numerical equivalents; intermediate grades may be given): "Sehr Gut" (1) = Very Good; "Gut" (2) = Good; "Befriedigend" (3) = Satisfactory; "Ausreichend" (4) = Sufficient; "Nicht ausreichend" (5) = Non-Sufficient/Fail. The minimum passing grade is "Ausreichend" (4). Verbal designations of grades may vary in some cases and for doctoral degrees.

Exam. Number	Examination	Semester	Mark	Status	Credits	Attempt
205014	Design and interpretation of experiments	WiSe 22/23	2.5	P	6.0	1
303002	Simulation Methods in Engineering	SoSe 23	2.1	P	6.0	1
2320	Stochastic Simulation Techniques and Structural Reliability					
451007	Stochastic simulation techniques and structural reliability	SoSe 24	2.5	P	3.0	1
451011	Stochastic simulation techniques and structural reliability (Project)	SoSe 24	1.3	P	3.0	1
2400	Visualization and Data Science					
256303	Photogrammetric Computer Vision	WiSe 22/23	1.3	P	4.5	1
336010	Image analysis and object recognitions	WiSe 23/24	2.0	P	6.0	1
439110	Introduction to Machine Learning	WiSe 22/23	1.7	P	6.0	1
419240045	Photogrammetric Computer Vision - Final Project	WiSe 22/23	1.3	P	1.5	1
2500	Project					
423210013	Let's Talk to the Lecture Slides	WiSe 23/24	1.3	P	12.0	1
3000	Electives					
909020	Macroscopic transport modelling	WiSe 23/24	2.9	P	6.0	1
3100	Language courses					
526501	Academic English Part One	WiSe 23/24	2.2	P	2.0	1
526502	Academic English Part Two	WiSe 23/24	1.5	P	2.0	1

Abbreviations

WiSe	Winter Semester	Exam.	Examination	F	Failed
SoSe	Summer Semester	P	Passed	FF	Failed at Final Attempt

Grading Scheme

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Exam. Number	Examination	Semester	Mark	Status	Credits Attempt
	Tentative Grade Average (Calculated from the Grades Relevant to Final Grade, Excluding Final Module)		1.78		94.0
	Credit Points Earned to Date / Total Credits Required for Graduation				91.0/120

Abbreviations

WiSe	Winter Semester	Exam.	Examination	F	Failed
SoSe	Summer Semester	P	Passed	FF	Failed at Final Attempt

Grading Scheme

The grading scheme usually comprises five levels (with numerical equivalents; intermediate grades may be given): "Sehr Gut" (1) = Very Good; "Gut" (2) = Good; "Befriedigend" (3) = Satisfactory; "Ausreichend" (4) = Sufficient; "Nicht ausreichend" (5) = Non-Sufficient/Fail. The minimum passing grade is "Ausreichend" (4). Verbal designations of grades may vary in some cases and for doctoral degrees.