

## PERSONAL INFORMATION



## ALEMU SISAY NIGRU

VIA MILZIADE TIRANDI 13/H, 25128 BRESCIA (BS)

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Gender Male | Date of birth Aug 30 1993 | Nationality Ethiopia

ML & AI junior researcher | Medical Image Analyst | Data Analyst

## PREFERRED JOB

## WORK EXPERIENCE

May 2022 - Dec 2022

## Extraordinary Internship on medical image acquisition and analysis

Acquisition of digital medical images, follow-up therapeutic and image data analysis for medical diagnosis activities.

Poliambulatorio Oberdan , Via Obrdan - BRESCIA (BS) Italy

Business or sector R&D and patents , education, training, research and development

Sep 2016 - Sep 2019

## Assistant Lecture

- Teaching different theoretical and Laboratory courses.
- Participating in different research work on technology transfer.
- Manage communication engineering students in the teaching-learning process.
- Inaugurate laboratory materials for the university.

University of Gondar , Maraki, Gondar, Ethiopia - GONDAR, ETHIOPIA Ethiopia

Business or sector R&D and patents , education, training, research and development

Mar 2015 - Jul 2015

## Telecom Company

- Handle the customer's Complaints
  - Troubleshoot Technical Difficulties
  - Oversee Billing and Payments of Customers
- Ethio telecom, Addis Ababa, Ethiopia , Legehar - ADDIS ABABA Ethiopia
- Business or sector Customer service , communication and telecommunications

## EDUCATION AND TRAINING

2022 - 2026

## Artificial Intelligence in Medicine and Innovation in Clinical Research and Methodology

EQF level 8

Università degli Studi di BRESCIA - Department of Clinical and Experimental Sciences  
Doctor of Philosophy (Ph.D.)

2019 - 2022

## COMMUNICATION TECHNOLOGIES AND MULTIMEDIA

EQF level 7

Università degli Studi di BRESCIA - Department of Information Engineering  
2nd cycle degree/Master of Science (2 years)

Principal subjects/occupational skills covered:

- Computer programming skills (Python, Java, C++, C, C#, ASP.NET, JavaScript, SQL, Matlab, R)
- Machine and Deep learning skills (Pytorch, Tensorflow, Nibabel, Nipype)
- Medical Image Analysis (MRI neuroimage)
- Lesion classification (CNN, Deep learning)
- Image compression (CNN based autoencoder)

2021 - 2021

## 5 month Erasmus study abroad at Mid Sweden university, Sweden

EQF level 7

Mid Sweden University - Electronics

2nd cycle degree - Master

Principal subjects/occupational skills covered:

- \*Sensor Network programming (Contiki)
- \*Physical Modeling of Embedded systems (Finite Element Method and SPICE)

2012 - 2016

## Electrical and Computer Engineering (Communication Engineering Specialization)

EQF level 6

## Postgraduate studies

### TRAINING COURSE

2017 - 2017 (10 months)

Advanced diploma

University

Description: Higher Diploma Program Certificate in Teaching Methods, The training focuses on how to manage the class while teaching and how to make an interactive learning activity in the class room.

## Pre-university studies

School-leaving examination taken in (year): 2016

Secondary school diploma taken abroad

## PERSONAL SKILLS

### Mother tongue(s)

Amharic

### Foreign language(s)

English

Italian

UNDERSTANDING				SPEAKING				WRITING	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient	C1	Proficient	B2	Independent	B2	Independent	C1	Proficient
B1	Independent	B1	Independent	A2	Basic	A2	Basic	B1	Independent

**Italian:** Corso di Lingua e cultura italiana di livello A1 - Università Degli Studi di Brescia, 06/02/2020 - European level: A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user  
Common European Framework of Reference for Languages

## Linguistic experience(s)

### Other experience acknowledged by the course of study

BSc. in Electrical and Computer Engineering

Language: English

Duration of studies in months: 24

Foreign country where the academic studies were carried out: Gondar (Ethiopia)

Description: Position held: Assistant Lecture at University of Gondar, Institute of Technology and Chairman for communication engineering stream.

Main activities and responsibilities:

- Teaching different theoretical and practical courses.
- Participating in different research work on technology transfer.
- Manage communication engineering students on the teaching learning process.
- Inaugurate laboratory materials for the university.

## Organisational / managerial skills

In my two years of leadership experience, I served as the chairperson of the Communication Engineering focus area at the University of Gondar. During that time I oversaw more than 100 students and 30+ lecturers.

## Digital competences

SELF-ASSESSMENT				
INFORMATION PROCESSING	COMMUNICATION	CONTENT CREATION	SAFETY	PROBLEM SOLVING
Proficient user	Independent user	Independent user	Independent user	Independent user

Digital competences - Self-assessment grid

### Basic digital competence:

#### COMPUTER PROGRAMMING

**Development Models:** Pytorch, Tensorflow, Nibabel, Nypipe, (Advanced) | **Programming languages:** C, C++, C#, Java, Python, Matlab, Javascript, R (Advanced) | **Web Programming:** ASP.NET, CSS, HTML (Intermediate)

#### DATA MANAGEMENT

**Database Design:** SQL (Intermediate)

#### GRAPHICS AND MULTIMEDIA

**Rendering:** Blender, Unity, Opengl (Intermediate) | **Web graphics:** (Intermediate)

## ATTACHMENTS

- Certificate of Special Recognition from University of Gondar Students Association, for giving tutorial classes for the students.
- Letter of Appreciation from Ethio telecom, for the excellent job I have done for the company during my internship stay, The project was named as 'Automating SIM card profile data management system'
- Certificate of Award from Ethiopian Space science and Technology, for my 3rd level Ranking in Question and Answer competition among students of 7 different university students.
- Certificate of recognition from University of Gondar for my 1st ranking and for graduating with very great distinction for my Bachelors study.