



Hailegabriel Dereje Degefa

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ABOUT ME

Dynamic Electronics and Communication Engineering graduate with a 3.51 GPA, blending expertise in electronics and programming. Actively enhancing skills in data science at ALX while pursuing a Master's in Artificial Intelligence at the University of Verona. Eager to seamlessly integrate these disciplines to drive innovation and contribute valuable insights to the evolving tech landscape.

WORK EXPERIENCE

17/12/2022 – 19/02/2023 Addis Ababa, Ethiopia

COMMUNICATION ENGINEER AND PRACTICAL TRAINER TECHNOLINK ICT SOLUTIONS

1. Worked as a contractor for Technolink to install the 103.5 FM Radio for the Dembi Dullo University.
2. Installed a 1+1 redundant FM transmitter system with a 3KW and a 1KW FM transmitter.
3. Performed a full studio installation for the 103.5 FM.
4. Installed a Studio Transmitter Link System connecting the Transmission site and the Studio.
5. Installed the server and the workstation computer for the studio.
6. Installed and configured the audio playback, mixing, editing, and restoring software on the workstation.
7. Gave presentation and trained the technicians on the new studio and transmission equipment.

Achievements:

1. Resolved a reflected power issue by redesigning the structure of the 6-bay dipole antennas

29/08/2022 – 16/12/2022 Addis Ababa, Ethiopia

COMMUNICATION ENGINEER AND PRACTICAL TRAINER MENAHERIYA MASS MEDIA

1. Fully installed the 99.1 FM Radio for the Menaheriya Mass Media in Addis Ababa, Ethiopia.
2. Installed a 3KW FM transmitter.
3. Suggested the radio transmission frequency after performing a full analysis on the nearby radio stations, in order to minimize interference.
4. Picked the frequency for the STL after gathering data on the frequencies used by near by cellphone and radio transmitters,
5. Performed a full studio installation.
6. Installed a Studio Transmitter Link System connecting the Transmission site and the Studio.
7. Programmed and adjusted the Audio Processor and the DBX Mic Preamp to fit the need of the broadcasted program.
8. Installed the server and the workstation computer for the studio.
9. Installed and configured the audio playback, mixing, editing, and restoring software on the workstation.
10. Gave presentation and trained the technicians on the new studio and transmission equipment.

Achievements:

1. Saved the company hundreds of dollars by building a passive mono to stereo converter XLR cable instead of buying new expensive equipments.

19/04/2022 – 26/05/2022 Abu Dhabi, United Arab Emirates

PV INSTALLER - CONTRACT MOHAMMED AL HAMMADI

1. Installed a 2KW solar panel system.
2. Performed basic calculation to design an efficient and cost oriented system.
3. Acquired the necessary materials for the new solar system by dealing with different companies.
4. Used a 3KW MPPT Hybrid inverter, 8 X 250W Monocrystalline panels with high temperature coefficient, and 8 X 100AH AGM Batteries.

5. Activated and tested systems after installation to ensure they worked.
6. Communicated with clients during installation process to facilitate installation completion.

15/02/2022 – 04/04/2022 Harrer / Dire Dewa, Ethiopia

COMMUNICATION ENGINEER AND PRACTICAL TRAINER HARRER MASS MEDIA AND DIRE DEWA MASS MEDIA

1. Work efficiently with the Installation team to mount a C-band satellite dish.
2. Installed the Transmission link and connected it to the satellite following the schematic diagram.
3. Installed an outdoor High-power amplifier unit.
4. Programmed the Encoder, Decoder, and Antenna control unit.
5. Gave presentation and trained the technicians on the new transmission equipment operation and maintenance.

30/09/2021 – 04/02/2022 Addis Ababa, Ethiopia

JUNIOR SOFTWARE DEVELOPER SINAM GLOBAL TRADING

1. Participated in the development of a web-based application using both Java and Python.
2. Analyzed Project needs and proposed design software solutions to meet them.
3. Designed and implemented user interfaces.
4. Performed UAT & PAT tests.
5. Coded the functionalities of different Apps using JAVA.
6. Performed web testing like stress tests and scalability tests.
7. Work collaboratively with developers to find test failures as early as possible.

EDUCATION AND TRAINING

01/10/2023 – CURRENT Verona, Italy

MASTERS IN ARTIFICIAL INTELLIGENCE University of Verona

Website <https://www.univr.it/home>

06/05/2023 – CURRENT Addis Ababa, Ethiopia

DATA SCIENCE CERTIFICATE ALX

Website <https://www.alxethiopia.com/>

05/10/2015 – 17/12/2020 Adama, Ethiopia

BSC.DEGREE IN ELECTRONICS AND COMMUNICATION ENGINEERING ADAMA SCIENCE AND TECHNOLOGY UNIVERSITY

Website <https://www.astu.edu.et/> | Final grade 3.51 CGPA

05/10/2018 – 20/12/2020 Adama, Ethiopia

CERTIFIED NETWORK ASSOCIATION ROUTING AND SWITCHING TRAINING ADAMA SCIENCE AND TECHNOLOGY UNIVERSITY

Website <https://www.astu.edu.et/>

LANGUAGE SKILLS

Mother tongue(s): **AMHARIC**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	B2	C1	C1
ARABIC	A2			A1	

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **HOBBIES AND INTERESTS**

Interests

1. Facing Challenges Using New Technology
2. Traveling and Learning New Language and Cultures
3. Working Out
4. Playing Coding Games

● **SKILLS**

Soft Skills

1. Problem-solving Skills
2. Leadership Skills
3. Communications Skills
4. Teamwork Skills
5. Organization and Time Management

Hard Skills

1. Knowledgeable in software like: Matlab, Latex, Proteus, Arduino IDE, IntelliJ, AutoCAD, Unity.
2. Familiar with languages like C++, C, Java, Python, Matlab, C#
3. Knowledge of computer architecture and organization
4. Knowledge of computer networks and communication protocols
5. Proficiency in software development tools and frameworks
6. Proficient in using equipment like: Oscilloscope, Frequency Analyzer and Digital MultiMate.
7. knowledgeable in Circuit design and Electrical schematics
8. knowledgeable in Collecting and analyzing data
9. Installing and maintaining electrical systems, equipment and devices