

Yenatfanta Shifferaw
Computer Engineer/Researcher
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Efficiently carry out various tasks and well adept at seeking solutions to existing problems or finding new ways of attacking challenging ones
Strongly believe and implement perseverance and creatively involve with system that effectively contributes to the growth of organization
Effectively work in a group environment or independently, in a professional manner with excellent interpersonal and communication skills

Education

Master of Science with Honors in Computer Engineering,
Addis Ababa University, Ethiopia, 2008-2011

Final Thesis : **Hybrid Intelligent System for Lung Cancer Type Identification (Published)**

An Intelligent system developed for classifying lung cancer types which are small cell and non-small cell lung cancer .

The system takes CT scan image of the chest and uses several image processing techniques to extract and filter out region of interests and implements artificial intelligence systems: self-organizing map and fuzzy system to identify the type of lung cancer.

Accuracy obtained in identification was 97%.

Bachelor of Science with Distinction in Electrical Engineering,
Jimma University, Ethiopia, 2004-2007

Undergraduate project: **Musical Water Fountain**

The system takes music as an input from any sound source , samples and filters it and then perform Transform which in turn gives different frequency levels to the motor as an input thus making it change the valves accordingly. Therefore the water level of the fountain changes according to the sound of the music and it also refracts and reflects the light (because of Light Emitting Diodes connected) making it interesting to watch.

Trainings

Name of training/Conference	Year
• Community Based Training Program(CBTP)	2004 & 2005
• Introduction to Free and Open source Software (FOSS) Linux	Nov 2006
• Telecommunication Systems and overview of IT work culture	Nov 2007
• Computer troubleshooting and maintenance	Jan 2010
• CCNA and Advanced computer networking	Feb 2012
• SQL database	Jul 2013
• Linux system administration	Apr 2016
• ICT and Pedagogical development	Feb 2017
• CyFy: connecting for cyber security conference	Oct 2017
• BlackinAI conference	Dec 2017
• Blockchain summit	Apr 2019
• CyFy Africa	June 2019

Skills

Programming and scripting languages:

C, C++,MATLAB, Python, Scheme,bash,Haskell

HTML, XML,CSS,AJAX

Linux system administration,RDBMS, Cloud Computing, ITIL
Tensorflow, work with github version control

Operating Systems:

Windows, UNIX, Linux, ROS (Robot Operating System)

Other Skills

Networking and Computer maintenance

Website development

Coordinating and arranging meetings/ workshops

Working with various Microsoft Packages

Tutoring University students

Work Experience

Mar 2017-up to date, Researcher, Ethiopian Biotechnology Institute

Responsibilities:

Experiment with various kinds of Generative adversarial networks (GAN)

Work on drones with 3D printing and toy robots under Robotics department

Building detection system for kidney abnormality using deep learning algorithms

Organize workshops on Artificial Intelligence in Ethiopia

Lead and manage Robotics team

Prepare annual Action plan for Robotics and Machine learning directorate

Jun 2014-up to date, Researcher/Programmer, LabsIcog, Addis Ababa

Responsibilities:

Work on Hanson Robotics project using different Machine/Deep learning algorithms

Experiment with ALICE chatbot and other dialogue systems

Image/video classification using GPU

Object Detection and Identification with caffe framework

R&D work on General Artificial Intelligence and improving the accuracy of recognition

- Carry out tasks using existing machine/deep learning libraries (TensorFlow, Theano, and Caffe)
- Implement different algorithms on OpenCog which is a framework for developing AI and integrative multi-algorithm systems
- Integrating the developed softwares into the Humanoid robot
- Implement detection of various ranges of sounds and actions to be taken for the Humanoid Robot
- Experiment with Meta-Optimizing Semantic Evolutionary Search (MOSES) for Atomspace

Sep 2011- Oct 2013, Senior engineer, ZTE ICT Technology Co. Ltd, Addis Ababa

Responsibilities:

- Working on Database in Customer care and billing system(CC&B) of Ethio Telecom
- Monitoring database efficiency
- Sustaining the security and integrity of data
- Creating query definitions that allow data to be extracted
- Participating in the National Integrated Justice Information System (NIJIS) project by carrying out the following tasks:
Evaluating and understanding of the justice system and its sectors' IT infrastructure and business process re-engineering.
- Developing flowcharts and specifications
- Coordinating among Ministry of Justice and ZTEICT team members
- Preparing and Gathering Requirement analysis data through performing survey
- Establishing end user requirement analysis
- Evaluating AS-IS and TO-BE network infrastructure of the justice system in Ethiopia

Sep 2007- Feb 2009, Junior Electrical Engineer, Ethio-Telecom, Addis Ababa

Responsibilities:

- Site Supervisor for a project entitled Fixed Line Next Generation Network(FL-NGN)

Coordinate and facilitate survey

Installing new equipment on different sites

Testing and handling compatible issues related with the new network

Work in Internet Service Division Broad Band Unit –SBU

Providing technical support for customers

Assisting customers in administering and handling their broad band Internet service

Languages

Amharic Mother Tongue Language

English, Score of 630 and 6 (on essay) in analytical writing in TOEFL and 1090 in GRE