**SurveySMS Data Collection**

**Technical and Financial Proposal**

***Presented By***

**Nataye GPS Trading P.L.C**

Address: Bole, Dasset Building,

Near Brass MCH Hospital

Kebele: 03/05

House Number - 2351/37

P. O. Box 25075, Addis Ababa, Ethiopia

Telephone: 251-911-649202,

E-mail: [natayegps@gmail.com](mailto:natayegps@gmail.com), <fitsumnabebe@yahoo.com>

**Dear Sir/Madam,**

**RE: SurveySMS PROPOSAL**

**Nataye GPS** is a fast growing Information Technology company operating in Ethiopia. We are an established GPS/GPRS technology service provision specializing in Fleet trucking; GPS enabled mobile data collection, BULK SMS Solutions, Web Design and Systems Development.

**Our Staff**

When you put brilliant creative, master strategists, technical geniuses and gurus all in a room together, the energy and the ideas explode. At Nataye GPS, we draw our team from years of exposure and experience in mobile data collection, SMS solution Systems Development. Every project is run through a line of experts each of whom specializes in a certain area giving you the most elaborate system you would imagine. All our systems are also tested to our clients’ satisfaction.

Nataye GPSsolutions have successfully helped design and implement mobile data collection and customized Bulk SMS Solutions. It is our honor to submit this proposal which we envisage will address your Bulk SMS requirements.

Kindly feel free to contact us for any further clarifications or discussions.

Yours sincerely

Fitsum Abebe

Manager

**TABLE OF CONTENTS**

1. Scope 1

2. Introduction 1

3. Objective 1.

4. SurveySMS BENEFITi 1.

**5. STUDY METODHOLOGY 2**

**5.1 REVIEW PHASE 2**

**5.2 DATA ANALYSIS AND DESIGN 2**

**5.3 SYSTEM IMPLEMENTATION 2**

**5.4 TESTING 2**

**5.5 TRAINING AND USER MANUAL 2**

**5.6 SECURITY REQUIREMENTS 2**

**6. SYSTEM REQUIREMENTS AND ARCHITRCTURES 3**

7. SURVEYSMS FEATURES 4

**8. LIMITATIONS 4**

9. WORKPLAN 5

10. pRICING 6

11. Annex 1 cleints 7

10. Annex 2 Team profile 8

**Scope**

This document provides the Overview, Technical and financial details of SurveySMS Data Collection solution offered by Nataye GPS trading.

**Introduction**

The emergence of the SMS technology provides you a great opportunity to expand your reach to your target clients as well as serve them in a far effective and efficient manner. SMS (Short Messaging Service) is the technology that allows text messages to be received and sent over mobile devices. SMS first appeared in Europe in 1992. It was included in the GSM (Global System for Mobile Communications) standards right at the beginning. Later it was ported to wireless technologies like CDMA and TDMA.

**Objectives**

The principal objectives for the implementation of the SurveySMS solution are stipulated below;

* To reduce the cost of communication as compared to other forms of advertising.
* To provide enhanced and comprehensive customer service through fast response time.

**SurveySMS Benefits**

There are many reasons why SMS is considered an effective way of communication. Some of the cost common reasons are;

**• Cost Effective**

Compared with other forms of communication, SMS is a very cost effective and incredibly practical, reliable, and affordable method of communication.

**• Extensive Reach**

Statistics of mobile communication users is 8-9 times more, compared to other communication channels. It has advantages over normal telephone, fax and email. The client receives the message instantly. Messages can be sent to a large number of clients.

**• Speed**

Messages can be delivered to the recipient in seconds all depending on the specific gateway used, route of delivery and coverage of the mobile operator.

**• Time Saving**

Instead of crafting a message and then sending it to each client, one message is created and then sent to a whole group of clients. It can be sent at once to a large group, which reduces the time and labor involved. Messages are delivered immediately (or when the phone is turned on).

**• Reliability**

As SMS is a personal communication facility, receiving it would not go unnoticed and it also grabs the attention of the receiver. In a short period of time, SMS has built up a reputation for itself as reliable communication system, guaranteeing almost 100 % delivery to the receiver.

**Study Methodology**

SurveySMS solution development will undergo through the following phases:

**5.1 Review Phase**

* During this phase the nature and methods of data processing of the various components of the proposed solution will be reviewed.
* Relevant data will be collected through review of the procedures and discussions with concerned persons will be held.

**5.2 Data Analysis and Design**

Following the review of operations, data analysis and design activities will be undertaken.

**5.3 System Implementation**

After client approves the design of the solution, the solution will be implemented according to the design. The major activities include database development, user interface development and getaway configuration and integration.

**5.4. Testing**

The solution will undergo rigorous testing at various stages. The system will be thoroughly tested during the development period. The system will also be tested with sufficient samples of actual data provided by Marcy corps and any errors identified during this period will be fixed.

**5.5 Training and User manual development**

A computerization projects without knowledge transfer to end-users is unlikely to succeed in any situation. Once the solution has been developed and implemented, users will be trained to perform their day-to-day activities. The training will also help to increase users’ self-confidence and trust in the system.

Training will be provided for all relevant staff on the developed system. Emphasis will be given on how to operate the system and some administrative tasks.

User manual will be develop and provider to marcy corps.

**5.6 Security Requirements**

SurveySMS application level security manager will be developed. It will implement serious security features that make sure that the system is only accessed by groups or individuals with the appropriate access rights.

**6. System Requirements and System Architectures**

SurveySMS requires the following infrastructure to successfully operate the data collection and bulk SMS services:

|  |  |
| --- | --- |
| **Requirement** | **Description** |
| An Android phone | Android 2.2 or above to be used as gateway,  Phones sold at ethio telecom sales offices are sufficient |
| A local SIM(Subscriber Identification) Card from ethio telecom | The mobile number through which all incoming and outgoing SMSs are handled. Eg. +**251 935932263** |
| A machine with operating system of Windows Server, window 7 or 2012 installed | Since SureveySMS is a web based application from which the authorized personnel will create survey questions and broadcast it all end users. |
| A Wi-Fi hotspot | The android phone and the SurveySMS application are connected wirelessly, The machine running the SurveySMS application should be in the local network. |

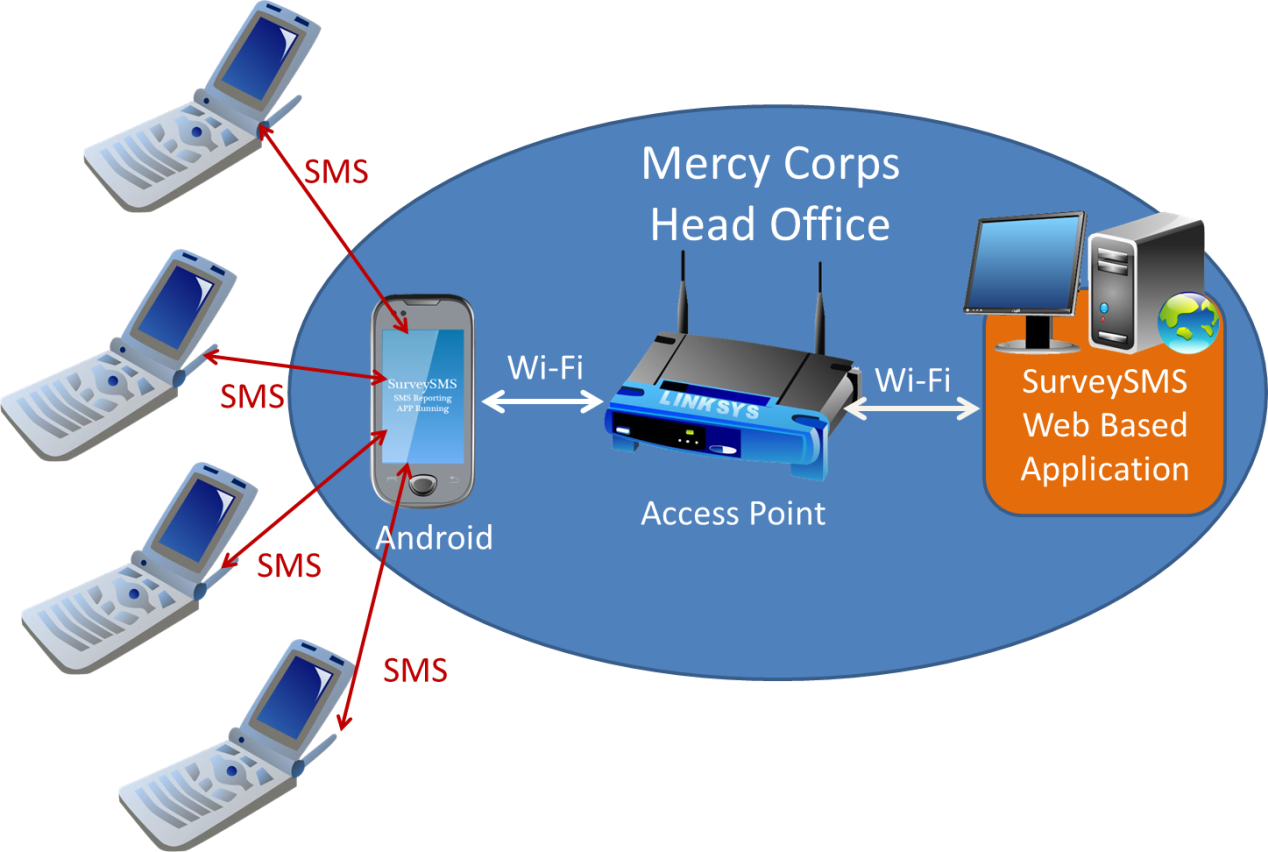
**System Architectures**

Figure 1: SurveySMS System Diagram

**7. SurveySMS description and features**

SurveySMS will have all the features put forth in the scope of the work we received from Mercy Corps earlier.as the following.

* Unlimited number of contacts
* Can create unlimited projects and many survey questions inside it

Whose data can be exported to spreadsheet applications like excel.

* Interactive Charts to show how many people are engaged actively

In the survey questions.

* Contacts can be grouped in to teams, so that only a set of people can be addressed.
* capable of sending short question/s to 300-500 mobile numbers at a time and able to receive the response from the recipients
* Receive messages only from known contacts and avoid the rest
* Multiple questions in one message with the standard limit of 160 characters.
* Track the status of individual messages sent to users. Whether they are successfully delivered or not.
* Since the system is hosted locally at the Mercy Corps Servers it doesn’t require internet connection.
* Only outgoing messages incur 0.35 birr each, incoming messages don’t cost anything.

**8. Limitations:**

* SurveySMS only supports text messages that contain the English aplaphet and numerals. A support for Amharic characters is not available because not every phone supports it.
* A single message can only contain 160 characters.

(This may not even be a limitation since it is the standard at which telecom companies operate, on top of that 160 characters is usually enough to convey short messages.)

**9. Work Plan**

The following work plan illustrates the activities and schedule of tasks.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Description of Services** | **Completion Period [in days]** | | | | | | | |
| 1 | 2-3 | 4-10 | 11-19 | 20-21 | 22-23 | 24 | 25 |
| 1 | Project initiation |  |  |  |  |  |  |  |  |
| 2 | Analysis |  |  |  |  |  |  |  |  |
| 3 | Design |  |  |  |  |  |  |  |  |
| 4 | Development |  |  |  |  |  |  |  |  |
| 5 | User Acceptance Testing |  |  |  |  |  |  |  |  |
| 6 | User Manual development |  |  |  |  |  |  |  |  |
| 7 | Training |  |  |  |  |  |  |  |  |
| 8 | Project rollout |  |  |  |  |  |  |  |  |
| 9 | Rollout Completion report |  |  |  |  |  |  |  |  |
| 10 | Ongoing management |  |  |  |  |  |  |  |  |

**10. Pricing**

The costs for the implementation of SurveySMS solution and management system for Mercy Corps consist of full service package fees and each of these costs is elaborate below.

**Full service package**

A full service package is a one-time service and the solution will be the organization asset and fee will be charged that covers the effort to gather requirements and developing the solution to Mercy corps’s needs. These package include data management functions, user interface design, server configuration and gateway integration. Based on our understanding of what is required and what is described in this proposal, the following full service package cost estimate is provided,

|  |  |  |  |
| --- | --- | --- | --- |
| **No** | **Project Phases/Activities** | **Description** | **Price**  **ETB** |
| **1** | **Project Initiation** | Purpose of this document is to define clear boundary of the project scope, show the project management plan and revise project plan. | **1,000.00** |
| **2** | **Analysis Design** | System Overview document, which will be updated frequently in this phases. The high-level system architecture, system integration, system functionalities will be addressed in this document. | **10,000.00** |
| **3** | **Development** | Working Software Packages, according to the system architecture and functionality | **45,000.00** |
| **4** | **Deployment** | Installation of infrastructure software, configuration and installing server side surveySMS solution and testing | **10,000.00** |
| **5** | **Training** | User manual preparation and Users training to perform their day-to-day activities. | **8,000.00** |
| **7** | **Project rollout** | Rollout Completion report and six month technical support | **5,000.00** |
| **VAT 1-7 (15%)** | | | **11,850.00** |
| **Grand Total** | | | **90,850.00** |

**Annex 1:**

**Sample of databases developed for different organizations**

1. **PMTCT SMS remainder system: Mcheal Dejene public health consultancy but research owner UNICEF**
2. **M&E Database:** *Developed for John Snow, Inc. (JSI) using Visual Studio 2008 (C#)*
3. **Trip Report Monitoring System (TRMS): *Developed for United Nations Children Fund (UNICEF) using ASP.NET***
4. **Decision Support System (DSS):** *Developed for* ***Columbia University, ICAP-E*** *using Visual Studio (.Net)*
5. **Invoice Registry and Processing Software:** *Developed for* ***World Food Program (WFP)*** *using ASP.NET*
6. **Vulnerability and Movement Monitoring Database*: Developed for UN\International Organization for Migration (IOM)***
7. **Unified Reporting System (URS): Developed for USAID\World Learning Project**

**Annex 2**

**Team profile**

**CURRICULEM VITAE**

**Fitsum Abebe Yimam**

**Res.:(251)(011)(1238669), Mob.:(251)(091)(1649202)**

**P.O.Box: 25075 Addis Ababa, Ethiopia**

E-mail: [fitsumnabebe@yahoo.com,fitsumtabebe@gmail.com](mailto:fitsumnabebe@yahoo.com,fitsumtabebe@gmail.com)

**KEY COMPETENCIES**

**Management and Leadership**

* A team builder and motivator
* Support management in recruitment/ Training
* Supervised a team of up to 8 people

**Research**

* Preparation of proposal
* Preparation of research designs
* Management of research field work
* Data analysis
* Supervision of research team
* Data management
* GIS data management
* Development of data management systems
* Report writing

**Monitoring and Evaluation**

* Design of M&E systems
* Development of M&E tools
* Development of data quality assurance tools
* Development of mobile and SMS data collection system
* Documentation
* Development of success stories
* Preparation of performance management plans and log frame
* Conduct data quality assessments
* Conduct rapid M&E surveys

**Education**

**Mekele University, Mekele, Ethiopia**

MPH in monitoring and Evaluation

**Addis Ababa University, Addis Ababa, Ethiopia**

Bachelor of Science major Information Technology, August 2007

**Ambo University, Ambo, Ethiopia,**

Diploma in General agriculture,July 2002

**Short Training and Certificates**

**Measure Evaluation**

Certificate in Monitoring and evaluation of Malaria program, M&E fundamental December 2013

M**obile data collection and management system training**

Attained online training on developing and managing of mobile data collection system Such as Data Dyne's Magpi Mobile Data System, SurveyCTo, Open data kite(ODK), Dooblo, DoForm and DHIS-2, February- May, 2013

**Tulane University Technical support for Ethiopia and ICAP- Ethiopia**

TOT Certificate on electronic Health record (Smart care) with its system administration September, 2011

**ICAP-Ethiopia- Global Health action**

Certificate on ART M&E tools and facility based ART monitoring system April, 2011

**Center for Disease Control and Prevention (CDC- Atlanta)**

Certificate of participation as a data manager in the evaluation of the health impact of Basic Care packages on the health of people living with HIV/AIDS in Ethiopia. September 2009-Januarty 2010.

**Statistical software package**

Attained training on statistical package for social science (SPSS), STATA and Epi info.September 15-30, 2009

**Center for Disease Control and Prevention (CDC) and World Health Organization (WHO)**

Certificate on using PDA (Personal Digital Assistant) and GPS (Geographic Positioning System) data of National HIV/AIDS – Related Health Facility Survey May, 2005

**WORK EXPERIENCE**

**Global Health Action (CU-ICAP- Ethiopia)**

**Regional Monitoring and Evaluation Advisor, (October, 2009 to date)**

**Key Responsibilities**

* Lead and coordinate monitoring, periodic evaluations, and semi-annual reviews of project activities, including program analysis and strategic planning.
* Undertake regular field monitoring visits and data flow mapping with partners to oversee project implementation, supervise quality of services, assess data collection, collation, storage, analysis and reporting process.
* Assist in the development and implementation of project’s Data Quality assurance tool (DQA) and ensuring data quality at program and partner level.
* Maintain up to date M&E data and any program related information for each operation areas and overall program.
* Preparation of performance management plans and log frame
* Participate in design of M&E systems and development of M&E tools
* Work with monitoring and evaluation staff to establish and ensure a functional monitoring and evaluation system.
* Proactively seek and promote best practice as part of monitoring, evaluation and program effectiveness practice.
* Manage the implementation of facility based ART monitoring system at a facility level.
* Assist site in troubleshooting, configuring network, provide antivirus update and take backup.
* Provide technical assistance to health care facilities to ensure timely reporting and use of high-quality routine program data
* Develop mobile phone data capturing system and analyze the information gathered.
* Build the capacity of project staff and partners in monitoring and evaluation and organize periodic refresher trainings for partners.

**Michael Dejene Pubic Health Consultancy services**

**Data manager and Survey coordinator, (September 2007- 2009)**

**Key Responsibilities**

* Support overall development and enhancement of data infrastructure and data management, analytics and reporting capacity.
* Design software program for data entry use based on data collection tools using Epi info, Epi data, Epi survivor, open data kite (ODK), survey TOGO, do form, access, SPSS, C# and visual basic dot net.
* Test and retest the data entry program before entry.
* Recruit and orient data encoders on data entry process.
* Ensure that complete questionnaires are received for data entry.
* Mentor responsible staff members on data use, data quality assurance, and database management
* Assist data encoders when there is unclear information or problem.
* Ensures that database files and applications are secured and protected from loss or damage.
* Ensure the reliability and completeness of data being entered onto the database systems.
* Contribute to data management and analytics capacity-building activities with the organization and staff at partner organizations.
* Facilitate logistics.
* Tracking the activities on schedule.
* Allocating assignments to interviewers.

Esayas T/brhan G/kidan

P.O.Box 31782

Addis Ababa, Ethiopia

Cell: (+251-91) 1687420

E-mail: [newesayas@Yahoo.com](mailto:newesayas@Yahoo.com)

# Personal Information

Name Esayas T/Brhan G/Kidan

Sex Male

Martial Status Married

### Nationality Ethiopian

Date of Birth May, 1974 G.c

#### Education

Addis Ababa University B.Sc. Degree in Statistics

Certificate in different Computer courses (Programming Languages and Networking)

**Language:**

Amharic - Good command in writing and speaking.

English - Good command in writing and speaking.

**PROFESSIONAL PROFILE**

* Over twelve years Experience in the design, development, implementation, support or management of software applications and system integration.
* Experienced professional with technical skill set and experience in business process automation, enterprise application integration, process improvement, system loading and integration, requirement analysis, process modelling, software designing, software development, and software units/system/ and integration testing.
* Widespread knowledge in object-oriented (OO) design and development techniques, experience in Graphic User Interface (GUI) design and implementations using several COTS products, and XML.
* Motivated achiever to apply new technologies to business settings, swift to learn new technologies/concepts, provides added value, and creates project deliverables in a timely manner.
* Proficient problem-solver who envisions business and technical perspectives to develop workable solutions.
* Excellent work ethic and good communication skills, ambitions to work as a team member, customer focused, willing to work varying assignments, with established problem solving skills.
* Widespread knowledge in conducting different types of statistical analysis (bi-variant, multi-variant analysis) using different statistical packages SPSS and SAS latest versions.
* Excellent work experience in using GIS software for spatial analysis (Arc View and Arc Info)

**AREAS OF EXPERTISE**

***Computer and Technical Skills***

* Operating System: UNIX, Linux, Windows and Windows Server 2003 operating system
* Programming Language: Basic, Fortran, Pascal, C, VB 6, C++, C#, VB.NET,

Standard Structured Query Language (SQL) and Java script

* Object Oriented Design (OOD), Data Structured Systems Development (DSSD), Design using Unified Modeling Language (UML)
* Software Unit testing, Software Integration Testing and System Acceptance Testing (SAT).
* Application Software: MS office 2000/XP/2003, SPSS, SAS, GIS (Arc view and Arc Info), EPI Info.
* Database Management Systems: SQL Server 2000/2005
* Web Tools: HTML, XML, VBScript, ASP, ASP.NET

***Additional Skill***

* User Interface design and development Object Oriented Design and Programming (OOD) and Network programming
* System loading, configuring and testing
* Software designing and development using different patterns
* Solid Statistics background
* Data analysis using different statistical packages (SPSS both Dos and Window versions and SAS)
* Spatial data analysis using GIS
* Effective time management skills
* Knowledgeable in computer networking for LAN and WAN, and TCP/UDP-IP

**CAREER EXPERIENCE**

**Columbia University, ICAP-Ethiopia, June 2007 – Present**

**Position: Senior Database Manager**

**Responsibilities:**

* Develop detail flowcharts and/or specifications for programming.
* Designe, code, and unit test web and windows applications for ICAP-Ethiopia and Health Facilities (Hospitals and Health Centers)
  + Design and Develop Decision Support System which tracks monthly programmatic data and generates different performance and achievement related reports which are vital for decision makers and planners.
  + Design and develop training software
  + Implement patient level ART Monitoring system at 42 selected hospitals and health centres
  + Design and develop registration database for 42 selected hospitals and health centers
* Design and implement major enhancements to the health related information management system.
* Analyze, Design and Implement Class Diagrams, Use Case Diagrams and Sequence Diagrams using Rational Rose
* Develop requirement and analysis document
* Develop test cases for all modules in the application
* Design and implement rational database(tables , stored procedures , and views) using MS SQL Server 2000/2005/2008
* Use Microsoft Configuration Application Block for application configuration
* Responsible for performing integration and system tests.
* Administer the implemented software
* Provide IT related technical support to ICAP-staff
* Provide technical support to the mainline operational users on how to use the implemented systems.
* Coordinate technical support with the Monitoring, Evaluation, and Research Unit of the International Center for HIV/AIDS Care and Treatment Programs (ICAP) at Columbia University’s Mailman School of Public Health.
* Provide overall direction and technical support in the planning and implementation of monitoring and evaluation activities required for Columbia’s HIV/AIDS care and treatment programs in Ethiopia.

**USAID, AED/Basic Education Strategic Objective Project, September 2002 – June 2007**

**Position: Senior Computer Programmer**

**Responsibilities:**

* Conducted system analysis
* Designed and Developed different databases for Ministry of Education, all Regional Education Bureaus and 60 selected Woredas
  + Design and Develop Personnel Management Information System (PMIS) for Ministry of Education (MoE) and all Regional Education Bureaus as well as for institution accountable to the MoE (EMA, ICDR, NOE and Adult Boarding School)
  + Implemented Materials Management Information System (MMIS) for Ministry of Education and all Regional Education Bureaus.
  + Implemented modest Local Area Network (LAN).
  + Designed and developed project monitoring and evaluation database.

* Set up Procedures, Guidelines and Operational Manuals for the implementation of the systems.
* Provided different types of trainings for the mainline operational users
  + Database preparatory training
  + Managers training on how to use and manage the functional features of the implemented systems.
  + Database management training for technical personnel’s.
* Provided training to Woreda personnel’s on how to use and manage the system
* Prepared user’s guide and operational manuals
* Provided training to data encoders
* Implemented the developed application systems at Ministry of Education, Regional Education Bureaus and 60 selected Woredas.
* Provided technical support to the mainline operational users on how to use the implemented system.
* Together with other programmers designed and developed different educational systems.

**Emergency Recovery Management Unit (ERPMU), Apr 2002 – Aug 2002**

**Position: Computer Programmer**

**Responsibilities:**

* Designed and Developed database that stores basic information of :
  + - Deportees from Eritrea
    - Internal Displaced people due to the conflict between Ethiopia and Eritrea
    - Demobilized veterans
    - And Family Deceased Children
* Implemented the databases in seven regions with the support of Ministry of Finance and Planning.
* Assisted ERPMU project housed in Ministry of Finance and Planning by designing and developing deportee’s payroll.
* Designed Local Area Network (LAN).
* Provided training to mainline operational users on how to use and manage the implemented systems.
* Prepared user guide manual for the developed systems.
* Provided technical support

**USAID, SERA (Strengthening Emergency Response Abilities), Food Security, Ethiopia, Oct 1999 – April 2002**

**Position: Research Assistant**

**Responsibilities:**

* Setup a comprehensive database using GIS and SPSS software.
* Conducted bi-variat and multivariate statistical analysis using SPSS DOS and Windows versions.
* Conducted data analysis using GIS (Arc view and Arc Info).
* Prepared Vulnerability profile for four drought prone Woredas.
* Coordinated and superviseed data collection from selected households.
* Developed data collection instruments.
* Trained enumerators on data collection methodologies.
* Setup a database that stores and analyse data collected from selected households.
* Designed and developed Food Security Beneficiary level database.

**Ethio Rental House S.Co, July 1995 – August 1999**

**Position: Senior Data Processor**

**Responsibilities:**

* Provided basic computer skill training for computer novice employees
* Developed and implemented Vehicles Management Information System.
* Designed and Implemented LAN system
* Developed and implemented Material Management Information system.
* Compiled Monthly, Quarterly, Semi Annually and Annually reports
* Compiled project plan.
* Take backups of all databases
* Provided training to the users on how to use and manage the developed systems
* Maintained and upgrade the already developed systems
* Provided IT related technical support to Project-staff

###### Training

* Three weeks training on SPSS Dos Version 4.0 and SPSS Window Version 10.0.
* Forty days training on GIS (Geo Information System) based on Arc view and Arc Info Software.
* Visual Basic.NET (2005)
* ASP.NET 2003
* Managing a Microsoft Windows Server 2003 Environment
* Maintaining a Microsoft Windows Server 2003 Environment
* Implementing, Managing, and Maintaining a Microsoft Windows Server 2003 Network Infrastructure
* Planning, Implementing, and Maintaining a Microsoft Windows Server 2003 Active Directory Infrastructure
* Implementing and Managing Microsoft Exchange Server 2003
* Two weeks training on Participatory Monitoring and Evaluation conducted in Kenya, funded by Irish Aid.

CURRICULEM VITAE

Tadios Tarekegn Ayele

Mob: (251)(0911)(17-1185), Res: (251)(0114)(16-4223)

P.O. Box: 100102 Addis Ababa, Ethiopia

Email: [tadfrend@gmail.com](mailto:tadfrend@gmail.com)

# Personal Information

Name : Tadios Tarekegn

Sex : Male

Date of Birth : March 10, 1984

Place of Birth : Addis Ababa

Marital Status : Single

Nationality : Ethiopian

# Educational Background

* B.Sc. Degree in Computer Science from Addis Ababa University (2005/6 G.C. - 2007/8 G.C.)
* Diploma in Applied Computer Science from CPU College (2002/3 G.C. - 2003/4 G.C.)
* Higher 20 Secondary School and Abyot Kirse Secondary School from 1998/9 G.C. - 2001/2 G.C.

# Language Skill

**Speaking** **Reading** **Writing**

Amharic Excellent Excellent Excellent

English V. Good Excellent Excellent

# Professional Experience

1. **Jun 1, 2013**

**Edge Computing PLC.**

**Position: Programmer**

**Duties and Responsibilities**

* 1. Agile software development
  2. Deployment operations management
  3. Participate in Agile ceremonies (daily scrum, retrospective and planning)

1. **Dec 27, 2012 – Jun 1, 2013**

**GCS | Kifiya Financial Technologies**

**Position: Mobile Application Developer**

**Duties and Responsibilities**

* 1. J2ME mobile application development
  2. Test and implement mobile and web applications
  3. Following up the Financial Inclusion data process
  4. Integrate or adopt financial solutions for new solutions
  5. Electronic Food Voucher Management project lead

1. **May 17, 2010 – Apr 09, 2012**

**Information Network Security Agency**

**Position: Software Programmer**

**Duties and Responsibilities**

* 1. Involve in all lifecycle of software development
  2. Coordinate the project responsible for and corporate with other project members as a team member.
  3. Programming Languages like Java/J2EE,C#,VB.Net and other web development tools
  4. Database development tools MS SQL, My SQL, Oracle (10G, 11G)

1. **Dec 12, 2009 until Mar 16, 2010**

**Dr. Michael Dejene Public Health Consultancy Service**

**Position: Assistant Data Manager**

**Duties and Responsibilities**

* 1. Design the data entry template on Epi Info data analysis software.
  2. Insure normal flow of data entry process and support.
  3. Perform data quality assurance activities.
  4. Migrate the data to SPSS for further analysis.

1. **March 17, 2009 until December 10, 2009**

**Agency for Government Houses on Position of Data Control and Processing Position: Data Processing Supervisor**

**Duties and Responsibilities**

1. Receive the row data to be processed.
2. Check that the data to be processed is correctly organized.
3. Check the network configuration, functionality and maintain when not functional.
4. Assign computers and other materials to data encoders.
5. Distribute the data for encoders in organized manner.
6. Assist data encoders when they encountered any problem
7. Check that the database works correctly.
8. Check the output of the database system with the row data and take corrective measures on different kinds of error.
9. Forward the paper data to the documentation handler.
10. Take backup of the database in regular schedule.
11. Wright report on the work progress to the sub project director in regular schedule.
12. **July 2008 – January 2009**

**ICAP (International Center for AIDS treatment Program) Columbia University. Working as team leader, date encoder and data cleaning in different ICAP sites on Facility based ART Monitoring System.**

**Duties and Responsibilities**

1. Ensure the completeness of the paper documents for data entry.
2. Enter data carefully into the designed ART Monitoring System.
3. Assist others and coordinate the working conditions.
4. Contact the data Manager for unclear information and problem.
5. Validate the data in the system by generating reports.
6. Setup LAN for the working environment and maintain if failed.
7. Attach and configure the database for the system with facility profile
8. Take back up of the database on regular basis.
9. Give training for the data clerks about the Electronic system.

# Project Works Undertaken (Graduating Class Project)

**Project**: *Addis Ababa Police Commission Criminal Record System*

The *Addis Ababa Police Commission Criminal Record System* which the graduating team developed was carried out for two semesters. The System was designed to facilitate the crime investigation process of the organization. The system trucks criminal record starting from the event investigation started until judgmental decision is given and lets inspectors to refer convicted persons record from the database including visual documentations. The Project was supervised by dedicated advisor Mr. Wondemeneh.

**Programming** **Language**: C#

**Database**: SQL server

**Tools**: .Net 2005, SQL server 2005

**Date**: September 2007 until Jun 2008

**Responsibilities**:

* Requirement gathering
* Preparing Requirement Analysis Documentation
* System Design
* System Design Documentation
* Coding
* Presentation and Defiance

# SKILLS AND ABILITIES

Programming Languages: C++, java, C#, VB

Tools and Technology: MVC, Spring, Hibernate Percistance, JSF, jQuery

Databases: SQL Server , ORACLE 10g, MySql

Dev. Ops. Git Hub, SVN, Amazon Web Service, Octopus Deploy

# Training

**May 11-22, 2005**

Training on using PDA (Personal Digital Assistant) and GPS (Geographical Positioning System) for National HIV/AIDS-Related Health Facility Survey organized by Ministry of Health and Department of Community Health of A.B.U. in collaboration with CDC, WHO and Engender Health.

Reference

* Mr. Samson Kahsay

Project Manager (INSA)

Tel. 0913 648989

* Dr. Tsigereda Gadisa

Senior Monitoring and Evaluation Officer (ICAP)

Tel. 0911 405102

* Mr. Tewabe Ayesheshem

Product Development (ACSI, FIP)

Tel. 0912 6117 24

* Mr. Biniam Solomon

Product Manager (KFT, FIP)

Tel. 0911 1046 77