STATEMENT OF PURPOSE: Oghenetega Gabriel Jeroh

My technical interests include Cryptography, Network Security, Secure Software Development and the social implications of computers. I have decided to major in Secure Software Development during my postgraduate studies.

Computers have become indispensable because of their increasing power and versatility. Unfortunately, as computer use becomes more widespread, so do the opportunities for misuse. Computer hackers often violate privacy and can tamper with or destroy records. Programs called viruses or worms can replicate and spread from computer to computer, erasing information or causing malfunctions. Other individuals have used computers to electronically embezzle funds and alter credit histories. The biggest surprise was the change in the threat model. We always knew there could be profit-based attacks, but no one anticipated the current alliance between hackers and other sorts of criminals, such as spammers, credit-card thieves, stock fraud artists, and so on. This, combined with the woeful security level of most desktop machines has created a vast profit motive for computer crime. Individuals, companies, and governments are working to solve these problems through informed conversation, compromise, better computer security, and regulatory legislation. Vendors started developing more robust products when they suddenly realized that it is better and cheaper to get rid of security holes during product development than to deal with the public relations mess and patches after the fact. Nowhere was this more evident than in Bill Gates's memo in January 2002, announcing Microsoft's Trustworthy Computing initiative. He declared "Trustworthy Computing is the highest priority for all the work we are doing," adding "so now, when we face a choice between adding features and resolving security issues, we need to choose security." Microsoft has decided to resolve this by educating its developers and changing its software development practices. Given the growing interest in trustworthy software and recent efforts to develop secure coding standards and practices, there is therefore a stringent call for research in the area of secure software development as we may possibly see a breakthrough in secure coding. All hands should be on deck because in the no distant future, we could see actual tools for attacking automobiles, robots, implants, remote surgeries, or energy systems instead of just Web sites, servers, and Personal Computers; this might be imminent crisis for the world at large.

Within the last two years, my interest and enthusiasm for research work have continued to grow progressively. It has become my habit to spend at least eight hours each day surfing the internet for challenges, brainstorming and drawing up new algorithms for solving these problems. The development, implementation and testing of profitable trading and Expert systems for making financial decisions in the foreign currency market have been my research focus within this period. These systems involve using fundamental and technical analysis tools to predict the market direction either in the short term or at times in the long term. The technical analysis tools include indicators displayed on charts, whose origin are based on advanced mathematical calculations such as Fibonacci retracement, Oscillators, Moving Average, Pivot, Resistance and Support regions. With the help of my C and C++ programming skills and the Meta Trader 4 inbuilt compiler, I was able to write the source codes for several Expert Advisors, Custom indicators and script for different trading systems which I developed. The Expert

created using
BCL easyPDF
Printer Driver
Click here to purchase a license to remove this image

Advisors (Robot) makes automated trading deals on live streaming data feeds using knowledge and analytical rules defined by my trading logic. Although progressive work is still on as I encounter new challenges daily, I intend to commercialize the product after satisfactory result has been ascertained.

A thought which I am currently involved in and sourcing for adequate information and concrete facts to draw up a proposal to the Nigerian government is, "The Software Network Management, Billing and Secure distribution of Electrical power to both residential and industrial consumers". The Nigerian federal government has invested so much in the generation, transmission and distribution of electricity but due to its inability to effectively manage the finance and very large customer base, had to privatize a sector to the Power Holding Company of Nigeria (PHCN). Some of the major challenges that the power distribution network is facing are customer's database management, precision billing and secure access. Attempts were made to solve the precision billing problems by introducing a pre-paid energy meter but desperate customers frustrated this positive gesture by short-circuiting the meter to get free access to the electrical energy. I therefore intend to develop a mechanism of software that will deny un-authorized customers access to the distribution network.

The pursuit of knowledge has always been my obsession and the propelling force behind all my achievements. My decision to pursue a PhD degree blends harmoniously with my eventual objective of taking up the highest ranking position at a research university while still having an authority in my area of interest. Though it helps me to become a member of the academic community, the postgraduate experiences also enhances my critical thinking, sharpens my analytical mind, refine my knowledge of research methodology and writing skills; and gives me a license to conduct research in my area of interest. There exist synergy between the MAP-i special theme for 2008/2009 "Security and Information Society" and my research interest so I suppose that a postgraduate study at your University will be the most logical extension of my academic pursuits and a major step towards fulfilling my aspirations.

I am very convinced that my undergraduate study has equipped me with the required basic knowledge in Computing, Mathematics and Electronics to excel in the PhD programme in Computer Science. My quest for in-depth knowledge for computer internetworking and security has motivated my self sponsored development certification courses in Cisco Certified Network Administration (CCNA) and Security Professional (CCSP). I also availed myself of the company's sponsored online multimedia tutors developed by Skill Port and NETg to undertake intensive training in Software Development Practices, Fundamentals of Programming, A+ certification, C++ and Java programming languages. Attached is my resume with relevant teaching and Information Technology work experience.

I will be grateful to you if I am accorded the opportunity to pursue my graduate studies with MAP-i grant at your institution and if my academic potential, strong commitment to research and a persistence quest for knowledge will be worthy of your serious consideration in the selection of a suitable candidate.

created using
BCL easyPDF
Printer Driver
Click here to purchase a license to remove this image

OGHENETEGA GABRIEL JEROH

Email: tegaingraduateschool@yahoo.com
Mobile: +2348035061640
Date of review: 29 April 2008

No 12 Udu market road,
Jeroh Petrol Station,
Warri-Delta State, Nigeria.

SUMMARY:

Two years research experience in the development and testing of Expert Systems.
Four years professional experience in computer and voice transmission network management.

PROFESSIONAL SKILLS:

Programming Languages: MQL, C, C++, and Java.
Platforms: Windows 98/NT/2000/XP/Vista and UNIX

IT CERTIFICATIONS:

Cisco Certified Network Associate (CCNA), 91%, December 2006
AutoCAD Designs, Upper Credit, September 2000

PROFESSIONAL TRAINING:

Cisco Certified Security Professional (CCSP)
A++ Certification
Software Programming Fundamentals
Software Programming Best Practices
C++ and Java programming languages

EDUCATION:

Bachelor of engineering (B.Eng) in Electrical/Electronics Engineering, Federal University of Technology, Akure (FUTA), Nigeria, 2001-05
Ordinary National Diploma (OND) in Electrical/Electronics Engineering, Petroleum Training Institute (PTI), Nigeria, 1998-2000

TEACHING EXPERIENCE:

Foreign currency Exchange tutor, 2008-date
HIV/AIDS peer-educator during National Youth Service Corps (NYSC), 2006-07
Secondary School Mathematics and Physics teacher during NYSC, 2006-07
Undergraduate tutorship for second and third year courses, 2001-03
Computer application Instructor during Internship, 2000-01

RESEARCH EXPERIENCE:

The development, implementation and testing of profitable trading and Expert systems for making financial decisions in the foreign currency market, 2006-Date
The Software Network Management, Billing and Secure distribution of Electrical power to both residential and industrial consumers, 2008-Date

WORK EXPERIENCE:

Telecoms Engineer, RANC Ltd. (Shell Petroleum Telecom Vendor), Warri, Nigeria, 2004-date:

- Installation, Configuration, Operation and Maintenance of CDMA/GMR Satellite and PDH/SDH terrestrial Radio Access Network and Multiplexers:
- Optimization and Network Management of Shell LAN/WLAN/MAN/WAN Data-Voice Network
- Digital Satellite Television (DSTV) Network Monitor
- Experience interacting with telecom carriers (MTN/Celtel/Glo) and other business partners

Network Engineer (Internship), XCEL International Computer, Warri, Nigeria, 2000-01:

- Computer Hardware and Software Engineering and Networking.
- Proficiency in Microsoft Word, PowerPoint and Excel.
- Cloning, repairs and after sale maintenance of computer system unit, monitors, printers, photocopiers and scanners.
- Operation of 7KVA Generator.

TECHNICAL WRITE UP AND PRESENTATION:

Student Industrial Work Scheme (SIWES) Internship report.
Seminar Presentation and Report write up on The Efficient use of Transmission media in Telecommunication Infrastructure.
Seminar Presentation and Report write up on The Reliability and Efficiency of Obanla Rural Power Distribution Network.

EXTRACURRICULAR ACTIVITIES:

I spend my leisure time having motivational chat with friends and relatives, playing video games, chess and scrabble games. I spend a lot of time surfing the internet, watching documentaries, current affairs and watching movies. I will not forget my regular commitment and devotions I give to my religious activities. I rarely go out for swimming and foot balling.

ENGLISH PROFICIENCY:

English Language happens to be the official language of my country Nigeria. It is the official medium of instruction at all levels of education and the medium for communication in the workplace. I do not have any problem with undertaking my postgraduate programme in English language because I am proficient in both spoken and written English.

COURSE CODES	COURSE TITLE	GRADE	POINTS	CREDIT UNIT
MEE 201	Manufacturing Technology I	51C	3	2
MEE 207	Applied Mechanics	47D	2	3
EEE 281	Basic Electrical Engineering I	50C	3	3
IMC 241	Basic Computer Programming I	51C	3	3
GNS 203	Nigerian People and Culture	57C	3	2
MNE 203	Engineer in Society	53C	4	1
MME 201	Science of Materials	44E	1	3
CHE 205	Physical Chemistry	41E	1	2
CRP 201	General Agricultural Theory	71A	5	1
IMC 201	Mathematical Methods I	41E	1	3
CVE 202	Strength of Material I	63B	4	3
MEE 202	Engineering Drawing II	52C	3	3
MEE 206	Basic Thermodynamics	45D	2	3
EEE 282	Basic Electrical Engineering II	58C	3	3
IMC 202	Introduction to Numerical Analysis	62B	4	3
IMC 242	Basic Computer Programming II	62B	4	3
AGE 204	Basic Fluid Mechanics	60B	4	2
CRP 210	Practical Agriculture	40E	1	2
GNS 104	Information Retrieval (Library)	53C	3	1

200 LEVEL (1ST YEAR) Direct Entry

300 LEVEL (2ND YEAR)

COURSE CODES	COURSE TITLE	GRADE	POINTS	CREDIT UNIT
EEE 311	Measurement and Instrumentation	75A	5	3
EEE 321	Physical Electronics	64B	4	3
EEE 341	Electric Circuit Theory I	51C	3	3
EEE 351	Electromechanical devices and Machine I	61B	4	3
EEE 361	Electrical/Electronics Laboratory I	64B	4	2
IMC 309	Elementary Differential Equation II	64B	4	3
EEE 322	Electronic Engineering I	53C	3	3
EEE 332	Electromagnetic Wave Theory II	67B	4	3
EEE 342	Electric Circuit Theory II	56C	3	3
EEE 352	Electromechanical devices and Machine II	41E	1	4
EEE 362	Electrical/Electronics Laboratory II	45D	2	3
GNS 202	Principles of Economics	56C	3	3
IMC 316	Engineering Mathematics II	46D	2	3

400 LEVEL (3RD YEAR)

COURSE CODES	COURSE TITLE	GRADE	POINTS	CREDIT UNIT
EEE 411	Control Theory	68B	4	3
EEE 421	Electronic Engineering	55C	3	3
EEE 443	Digital Devices and Logic Circuit	40E	1	3
EEE 451	Electric Power Principles	63B	4	3
EEE 461	Electrical/Electronics Laboratory III	68B	4	2
IMC 415	Engineering Mathematics III	48D	2	3
EEE 402	Grade from Student Industrial Work Experience Scheme (SIWES)	86A	5	4
EEE 404	Log Book Assessment	77A	5	2
EEE 406	Write up/defense	68B	4	4
EEE 331	Electromagnetic Field Theory	55C	3	3
EEE 441	Engineering Computational Method	63B	4	3

500 LEVEL (4TH YEAR)

COURSE CODES	COURSE TITLE	GRADE	POINTS	CREDIT UNIT
EEE 511	Control Engineering	68B	4	3
EEE 555	Electrical Service Design	52C	3	2
EEE 533	Communication System	50C	3	3
EEE 551	Power Electronic and Devices	48D	2	3
EEE 546	Assembly Language	58C	3	3
EEE 571	Electric Engineering Project			3
MEE 501	Engineering Economics and Accounting	67B	4	3
MEE 502	Engineering Law and Management	57C	3	3
EEE 572	Final Year Project	67B	4	3
EEE 582	Reliability and Maintainability of Systems	57C	3	2
EEE 584	Seminar Presentation	67B	4	2
EEE 431	Communication Principles	43E	1	3
EEE 547	System Programming	56C	3	3
EEE 538	Broadcasting	46D	2	3

SESSION: 2005/2006

NAME: JEROH GABRIEL OGHENETEGA

YEAR ADMITTED: 2000 MATRIC. NO: EEE/00/4740

COURSE PURSUED: ELECTRICAL/ELECTRONICS ENGINEERING

STATE OF ORIGIN: DELTA STATE

SPONSOR: CHIEF E. O. JEROH

DEGREE AWARDED: B. ENGINEERING

DATE OF AWARD: DECEMBER 2005

1ST YEAR			2ND YEAR			3RD YEAR		
COURSE	GRADE	POINTS	COURSE	GRADE	POINTS	COURSE	GRADE	POINTS
			CHE 205	41E	1	EEE 311	75A	5
			CRP 201	71A	5	EEE 321	64B	4
			EEE 281	50C	3	EEE 341	51C	3
			GNS 203	57C	3	EEE 351	61B	4
			IMC 201	41E	1	EEE 361	64B	4
			IMC 241	51C	3	IMC 309	64B	4
			MEE 201	44E	1	EEE 322	53C	3
			MEE 207	47D	2	EEE 332	67B	4
D	E		MME 201	51C	3	EEE 342	56C	3
I	N		MNE 203	53C	4	EEE 352	41E	1
R	T		AGE 204	60B	4	EEE 362	45D	2
E	R		CRP 210	40E	1	GNS 202	56C	3
C	Y		CVE 202	63B	4	IMC 316	46D	2
T			EEE 282	58C	3			
			GNS 104	53C	3			
			IMC 202	62B	4			
			IMC 242	62B	1			
			MEE 202	52C	3			
			MEE 206	45D	2			

FEDERAL UNIVERSITY OF TECH. AKURE
CERTIFIED TRUE COPY
27/1/06.

RESULT: RESULT: PASSED RESULT: PASSED

CGPA : CGPA: 2.79 CGPA: 3.89

KEYS TO GRADE

MARK%	GRADE	POINTS	DESCRIPTION
70% and above	A	5	Very Good
60-69%	B	4	Good
50-59%	C	3	Average
45-49%	D	2	Satisfactory
40-44%	E	1	Weak
Below 40%	F	0	Very Weak

FEDERAL UNIVERSITY OF TECH. AKURE
Records Office

For Registrar

** Any alteration on this Transcript renders it invalid**

YEAR: 2005 SESSION: 2005/2006

NAME: JEROH GABRIEL OGHENETEGA

YEAR ADMITTED: 2000 MATRIC. NO: EEE/00/4740

COURSE PURSUED: ELECTRICAL/ELECTRONICS ENGINEERING

STATE OF ORIGIN: DELTA STATE

SPONSOR: CHIEF E. O. JEROH

DEGREE AWARDED: B. ENGINEERING

DATE OF AWARD: DECEMBER 2005

4TH YEAR			5TH YEAR			6TH YEAR		
COURSE	GRADE	POINTS	COURSE	GRADE	POINTS	COURSE	GRADE	POINTS
EEE 331	55C	3	EEE 431	43E	1			
EEE 411	68B	4	EEE 511	68B	4			
EEE 421	55C	3	EEE 533	50C	3			
EEE 441	63B	4	EEE 547	56C	3			
EEE 443	40E	1	EEE 551	48D	2			
EEE 451	63B	4	EEE 555	52C	3			
EEE 461	68B	4	MEE 501	67B	4			
IMC 415	48D	2	EEE 538	46D	2			
EEE 402	86A	5	EEE 546	58C	3			
EEE 404	77A	5	EEE 572	67B	4			
EEE 406	68B	4	EEE 582	57C	3			
			EEE 584	67B	4			
			MEE 502	57C	3			

FEDERAL UNIVERSITY OF TECH. AKURE
CERTIFIED TRUE COPY
REGISTRAR 27/1/06

RESULT: PASSED RESULT: PASSED RESULT:

SECOND CLASS (HONS)
LOWER DIVISION

CGPA 3.07 CGPA: 3.06 CGPA:

FEDERAL UNIVERSITY OF TECH. AKURE
REGISTRAR
Date
M. B. 704, AKURE.

Records Officer

For Registrar

KEYS TO GRADE

MARK%	GRADE	POINTS	DESCRIPTION
70% and above	A	5	Very Good
60-69%	B	4	Good
50-59%	C	3	Average
45-49%	D	2	Satisfactory
40-44%	E	1	Weak
Below 40%	F	0	Very Weak

- *Any alteration on this Transcript renders it invalid**

PETROLEUM TRAINING INSTITUTE

EFFURUN, NIGERIA

This is to certify that

Gabriel Oghenetaga Jeroh

having completed the approved course of study and passed the prescribed Examinations has, under the Authority of the Academic Board, been awarded

National Diploma

Electrical/Electronic Engineering Technology

Upper Credit

PRINCIPAL

REGISTRAR

17th September 2000
DATE

No DA 1672

06

A0010154

NATIONAL YOUTH SERVICE CORPS

Certificate of National Service

This is to Certify that

Jeroh Gabriel Oghene

NYSC BO/FUA/06/304885 has satisfactorily completed or

national service from 14th Feb. 2006 to 13th Feb. 2007, in

with Section 11 of the National Youth Service Corps Decree No. 5

13th Feb. 2007.

Director-General

National Youth Service Cor

THE FEDERAL UNIVERSITY OF TECHNOLOGY, AKURE

REGISTRAR: Dr. (Mrs.) E.F. Oyebade MNIM, FSEA
B. Ed. M.Ed. Ph. D

P. M. B. 704, AKURE, ONDO STATE NIGERIA TEL: (034)243490-4 Ext. 2016
Cables & Telegrams: FED UNITECH, AKURE
Telex 32512 FUTATEL NG
e-mail: root@futa.oauife.edu.ng

Telex:

Our Ref: FUTA/REG/AC/NOR/112

Date: 30th January, 2006

JEROH, OGHENETEGA GABRIEL
EEE/00/4740
Federal University of Technology,
P. M. B. 704,
AKURE

NOTIFICATION OF RESULT: SUCCESS IN THE UNIVERSITY FINAL DEGREE EXAMINATIONS

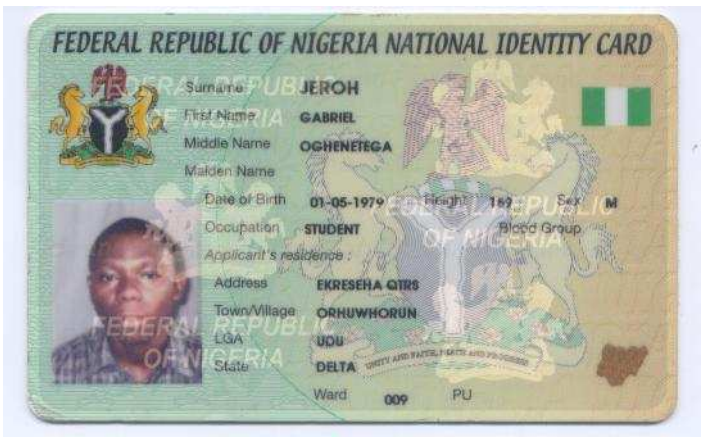
I am pleased to inform you that as a result of your success in the Bachelor of Technology final degree examinations held in August, 2005. Senate has at its special meeting held on November 30, 2005 on the recommendations of the Board of Studies, School of engineering & engineering technology approved that you be awarded the Degree of BACHELOR OF ENGINEERING in ELECTRICAL & ELECTRONIC ENGINEERING with SECOND CLASS (HONS) LOWER DIVISION.

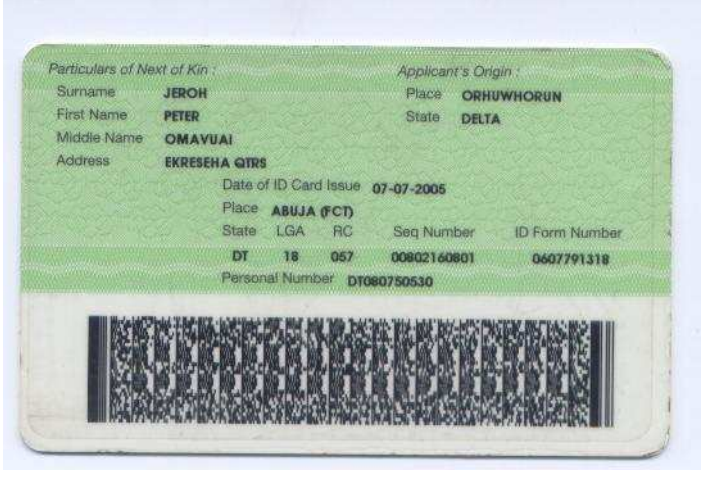
On behalf of the Senate of this University, kindly accept my warm congratulations.

The certificate however, will be ready for collection in due course.

FEDERAL UNIVERSITY OF TECHNOLOGY REGISTRAR P. M. B. 704, AKURE

A. O. OGUNRUKU.
Academic Affairs Officer
For: Registrar


FEDERAL REPUBLIC OF NIGERIA NATIONAL IDENTITY CARD
Surname JEROH
First Name GABRIEL
Middle Name OGHENETEGA
Maiden Name
Date of Birth 01-05-1979
Height 162
Sex M
Occupation STUDENT
Blood Group
Applicant's residence :
Address EKRESEHA QTRS
Town/Village ORHUWHORUN
LGA UDU
State DELTA
Ward 009
PU



Particulars of Next of Kin :

Surname **JEROH**

First Name **PETER**

Middle Name **OMAVUAI**

Address **EKRESEHA QTRS**

Applicant's Origin :

Place **ORHUWHORUN**

State **DELTA**

Date of ID Card Issue **07-07-2005**

Place **ABUJA (FCT)**

State	LGA	RC	Seq Number	ID Form Number
DT	18	057	00802160801	0607791318

Personal Number **DT080750530**

MAP- i Doctoral Programme in Computer Science
Portugal

REFEREE FORM

The referee report provided by you helps us to evaluate the applicant's academic and intellectual capacity, and is an integral part of our admission decision process. Thank you.

Name of Applicant:	Oghenetega Gabriel Jeroh
Referee's Name:	Engineer Ovie Okor
Telephone No:	+2348039602466
Address:	The Shell Petroleum Development Company of Nigeria Limited (SPDC), Telecoms building, Industrial Area, Ogunu, Nigeria
Email Address:	Ovie.okor@shell.com
Organization:	The Shell Petroleum Development Company of Nigeria Limited
Designation:	Senior Telecommunications Analyst

EVALUATION OF APPLICANT

1. **How long have you known the applicant, and in what capacity?**

I have known the applicant for over 3 years as a staff of RANC limited. RANC limited is a vendor to SPDC and they maintain the telecommunication facilities under my direct supervision.

2. **Please appraise the candidate in terms of the qualities listed below, relative to the applicant's peers. Mark an 'X' in the appropriate boxes.**

	Average / Below	Good (Above Average)	Excellent	Outstanding
Proficiency in English			X	
Enthusiasm and desire to learn				X
Analytical Skills				X
Verbal Skills			X	
Ability to adapt to new situations				X
Self-Confidence				X
Creative Qualities				X
Leadership Potential			X	
Managerial Potential			X	
Initiative				X

3. **Your assessment of applicant's potential/suitability to undertake PhD study in Computer Science.**

It is with pleasure that I recommend Mr. Oghenetega for PhD programme at your university. I have known him as an innovative self-starter, who rarely needs supervision. He is punctual and typically exceeds expectations. He handles pressure well, and will voluntarily work overtime and take work home to meet a deadline. He has a strong desire to excel, sets high standards for himself and achieves them consistently. Mr. Oghenetega is a very sincere and diligent person with sufficient motivation to excel in his chosen field of studies. I wish him all the best and strongly recommend him for PhD study in your University with full financial aid. Please do not hesitate to contact me if you need any additional information.

4. **Any other information which you think is relevant to our admission decision.**

On a personal level Oghenetega is an ambitious person showing a lot of enthusiasm for research and development works. He has literally gotten me involved in his research for expert solutions to financial problems in online foreign currency market (forex) and has been able to develop some profitable systems which are currently under test on a demo account. His passion for research and successful result so far has motivated me to support him both technically and financially in his works as well as in his desire to further his academic career in his chosen field of studies. I have so much confidence in him and see a lot of potentials that will be unleashed if given the required enabling environment.

MAP- i Doctoral Programme in Computer Science
Portugal

I strongly recommend this applicant for PhD study in Computer Science.

Referee's Signature: _____ **Date:** **5th May 2008**

Please this form should be sent directly to the email mapi@map.edu.pt **from the recommender's official email before 5th May 2008. Paper recommendations will not be accepted.**

MAP- i Doctoral Programme in Computer Science
Portugal

REFEREE FORM

The referee report provided by you helps us to evaluate the applicant's academic and intellectual capacity, and is an integral part of our admission decision process. Thank you.

Name of Applicant:	Oghenetega Gabriel Jeroh
Referee's Name:	Michael Adeniyi
Telephone No:	+234 8064146471
Address:	5,Idugboe Estate, Off Elf Road, Ogunu – Warri. Delta State, Nigeria
Email Address:	michael.adeniyi@ranclimited.com
Organization:	Ranc Limited
Designation:	Manager

EVALUATION OF APPLICANT

1. How long have you known the applicant, and in what capacity?

I have known the applicant for 3 years . He worked as a Computer and Radio Transmission engineer under my supervision for about two years.

2. Please appraise the candidate in terms of the qualities listed below, relative to the applicant's peers. Mark an 'X' in the appropriate boxes.

	Average / Below	Good (Above Average)	Excellent	Outstanding
Proficiency in English			X	
Enthusiasm and desire to learn				X
Analytical Skills		X		
Verbal Skills		X		
Ability to adapt to new situations			X	
Self-Confidence			X	
Creative Qualities		X		
Leadership Potential		X		
Managerial Potential		X		
Initiative			X	

3. Your assessment of applicant's potential/suitability to undertake PhD study in Computer Science.

Mr. Oghenetega Jeroh is a hard working and innovative man. He dedicated to duty and relates well with other co-workers.

4. Any other information which you think is relevant to our admission decision.

He is very eager to learn.

I strongly recommend this applicant for PhD study in Computer Science.

Referee's Signature: moadeniyi **Date:** 03/05/2008

MAP- i Doctoral Programme in Computer Science
Portugal

Please this form should be sent directly to the email mapi@map.edu.pt **from the recommender's official email before 5th May 2008. Paper recommendations will not be accepted.**