Muthunama Gonnage Dinuni Kaushalya Fernando

No.27 , Filiciya Mawatha,
Hapugoda,
Kandana,
Sri Lanka.

dinuni.fernando@gmail.com
dinuni@ieee.org
http://www.linkedin.com/in/dinunifernando
+0094-71-4293-337

Motivation

An enthusiastic, adaptive and fast-learning person with a broad and acute interest in the discovery of new innovative possibilities of research and out of box thinker, I particularly enjoy collaborating with researches from different disciplines to develop new skills and solve new challenges and a good team player.

Personal Details

Age	24 years
Gender	Female
Nationally	Sri Lankan
NIC	887851913V

Education

2009 – 2013   **University of Colombo School of Computing , Sri Lanka**

(B.Sc. (Hons) in Computer Science – To be completed by 2013 Dec)

(Current GPA 3.6862/4 - First class up to 3rd year results)

1993 – 2007   **Holy Family Convent, Colombo 04**

G.C.E (A/L) – 2008 (C.Maths – B , Physics – B , Chemistry – B , Zscore 1.8184)

G.C.E (O/L) – 2004 (8 A's- A for all subjects)

Research Experience

2012- 2013

Sustainable Computing Research Group (SCoRe)

Wireless and Sensor Networking laboratory

Research Assistant – (full time)

TikiriPower

TikiriPower is an industry funded research project in Wireless Ad-hoc Sensor Network laboratory collaboration with "Orel Corporation". TikiriPower is a power monitoring and controlling mechanism uses sensor nodes for a smart home application which embeds sensor network for power monitoring optimizations.

Co-operative Insurance - Security Audit

Junior Technical Security Auditor

Ministry of Defense Sri Lanka - Nationals Peoples Registry Project

Junior Procurement Consultant

2013-present

Mathematical modeling for real time radar in 3D maritime environment

This is the final year research project which combines variety of physics theories and tries to capture a computational real time model

Project duration: 10 months

Project weight: 10 credits in the final year

Work Experience

2012

Institute of Indigenous Medicine , University of Colombo

Visiting Lecturer

Lecture series on "Information Technology & Computer Application "course unit for 1st year undergraduates in both Department of Ayurveda and Department of Unani.

- *Conducting lectures, tutorial classes, lab-sessions and in-class assignments for undergraduates*
- *Designing exam papers , tutorials, assignments and lab-sessions*
- *Marking exam papers and evaluating viva and assignments*
- *Exam invigilation*

Project Experiences & Awards

2012   **TrafficMate**

TrafficMate is a traffic management app providing an efficient solution for traffic congestion. Research indicates the most effective ways of controlling traffic. TrafficMate takes advantage of the Smartphone inside the app user's pocket, turning the user into a sensor. Smartphone's create a 'social network' of traffic detection without external sensors or bureaucracy.

Awards
- *World Summit Award 2012 - Award Winner (http://www.wsa-mobile.org/winner/trafficmate-81120121016).*
- *TrafficMate has been nominated for the World Summit Award (www.wsamobile.org) by Reshan Dewapura, WSAmobile Expert Panel Member 2012, as the best mContent example in mMedia & News from Sri Lanka. (http://www.icta.lk/success-stories.html).*
- *NBQSA 2012 (National Best Quality Software Awards) Silver award winner for tertiary category organized by BCS Sri Lanka section (http://www.nbqsasrilanka.org/winners_2012)*
- *Nominated for Asia Pacific ICT Awards 2012 (APICTA 2012) which was held in Brunei Darussalam from 2nd to 5th December 2012.*

2012   **Calcey Hakathon - Runner up**

36 hour coding challenge among 6 leading universities in Sri Lanka

Publications

2013

Authorship	:	First Author
Type of publication	:	Oral presentation at conference
Referred publication	:	Yes
Title	:	3D Radar – Modeling Virtual Maritime Environment - For the Static Environment Perception
Conference	:	International Conference on Robotics, Biomimetics, Intelligent Computational Systems
Publisher	:	IEEE
Citation	:	**Fernando, D**. ; Kodikara, N.;Keppetiyagama, C.,"3D Radar – Modeling Virtual Maritime Environment - For the Static

Environment Perception",2013 International Conference on Robotics, Biomimetics, Intelligent Computational Systems,25-27 Nov. 2013(Accepted–In press)

2013

Authorship	:	First Author
Type of publication	:	Pending for acceptance
Referred publication	:	Yes
Title	:	Mathematical Model for Radar in 3D Virtual Maritime Environment for the Dynamic Perception
Conference	:	Eighth International Conference on Industrial & Information Systems 2013 (ICIIS- '2013)
Publisher	:	IEEE
Citation	:	**Fernando, D**. ; Kodikara, N.;Keppetiyagama, C.," Mathematical Model for Radar in 3D Virtual Maritime Environment for the Dynamic Perception ",Eighth International Conference on Industrial & Information Systems 2013 (ICIIS-'2013),Peradeniya, Sri Lanka, Dec. 2013.

2013

Authorship	:	Joint Author
Type of publication	:	Pending for acceptance
Referred publication	:	Yes
Title	:	An Intelligent Smart Building System for Energy Efficient Lighting Management.
Conference	:	Eighth International Conference on Industrial & Information Systems 2013 (ICIIS- '2013)
Publisher	:	IEEE
Citation	:	Fernando, MAID.,Sayakkara, A.,**Fernando, D**., Siriwardena, EMD.,Ekanayake, EMWV.,De Zoysa, K.,"An Intelligent Smart Building System for Energy Efficient Lighting Management", Eighth International Conference on Industrial & Information Systems 2013 (ICIIS- '2013),Peradeniya, Sri Lanka, Dec. 2013.

2012

Authorship	:	Joint Author
Type of publication	:	Oral presentation at conference
Referred publication	:	Yes
Title	:	TikiriPower - Using TikiriDB abstraction on Smart Home systems
Conference	:	Advances in ICT for Emerging Regions (ICTer), 2012 International Conference
Publisher	:	IEEE
		Weerawarne, L.; Sayakkara, A.; **Fernando, D**.; Suduwella, C.;

Citation	:	De Zoysa, K., "TikiriPower - Using TikiriDBabstraction on Smart Home systems," Advances in ICT for Emerging Regions (ICTer), 2012 International Conference on , vol., no., pp.75,81, 12-15 Dec. 2012 doi:10.1109/ICTer.2012.6422838 URL:http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6422838&is

2012

Authorship	:	Joint Author
Type of publication	:	Oral poster presentation at conference
Referred publication	:	Yes
Title	:	A sustainable mechanism for gathering road traffic data using smart-phones
Conference	:	Advances in ICT for Emerging Regions (ICTer), 2012 International Conference
Publisher	:	IEEE
Citation	:	Udalagama, S.; Sahabandu, L.; Samarkoon, L.; **Fernando, D**.; Chanthirasegaran, P.; Udana, S.; Asanga, D.; Fernando, C.; Keppetiyagama, C.; Ranasinghe, C., "A sustainable mechanism for gathering road traffic data using smart-phones,"Advances in ICT for Emerging Regions (ICTer), 2012 International Conference on , vol., no., pp.224,224, 12-15 Dec. 2012 doi: 10.1109/ICTer.2012.6423029 . URL:http://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&arnumber=6423029&isnumber=6421397

Responsibilities

2012- Present	Chairperson IEEE UCSC Student Branch for 2012 – 2013
2010-2012	IEEE Coordinator USCS Student Branch - 2010 to 2012
2010-Present	IEEE student Member
2009-2013	A member of the Microsoft Student Champs community
2012- Present	IEEE Representative for CompSoc Society, University of Colombo
	Advisor - UCSC Programming Competition
2012	Main organizer and coordinator in IEEE Xtreme 6 - 24 hours Programming Competition
2012	Served as a Judge and coordinator for IT quiz inter school IT

	competition organized by Holy Cross College IT club, Sri Lanka.
2012	Main organizer and coordinator in IEEE Xtreme 5 - 24 hours Programming Competition
2011	Main coordinator IEEE Region 10 Technical seminar on "Green Energy" held on Prof. V.K Samaranayake Auditorium, Sri Lanka.
2011	Organizing committee for Island wide Media competition organized by IEEE student branch collaboration with CompSoc in University of Colombo.
2011	Coordinated IEEE Robotics Guest Lecture series
2011	Coordinator for "Tech Talk" series organized collaboration with IEEE GOLD Sri Lanka as the "Step" event.
2009-2012	Active Committee member of Computer Society of University of Colombo
2011	Editor of University of Catholic Students Movement

Professional Affiliations

- IEEE Student Member (MIEEE - 91252315)
- Sun certified Programmer for the Java Platform, standard Edition 5.0
- Computer Application Assistant –National Vocational Qualification level 3
- Computer Graphic Designer - National Vocational Qualification level 4

Referees

Prof. N.D. Kodikara	Gihan P. Senevirathne
Deputy Director	Senior Lecturer, Head CIS
University of Colombo School of Computing	University of Colombo School of Computing
No. 35, Reid Avenue	No. 35, Reid Avenue
Colombo 07	Colombo 07
Tel: +94-11-2581245	Tel: +94-11-2581245, +94-77-3832935
ndk@ucsc.cmb.ac.lk	gps@ucsc.cmb.ac.lk

I hereby certify that the above facts and detail furnished by me are true & correct to the best of my knowledge .

16/09/2013   Dinuni Fernando