



## Curriculum Vitae

**SHARIF, OMER ABDELRAZAG SHARIF ABUBAKER**

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**Gender:** Male

**Date of Birth:** 30 June 1978

**Place of Birth:** Omdurman, Sudan

**Nationality:** Sudanese

**Pass Port No.:** B0343131, Khartoum North, issued in 28 February 2004, and valid until 11 August 2010

**National Service:** Completed Since 22 January 2000

**Marital status:** Marriage and have a daughter.

### Address

#### *Current Address:*

Advanced Electronics Division  
Researches Engineering Industries Department  
Industrial Research and Consultancy Centre (IRCC)  
Al-Kadarow Pilot Street, Northern Central Market of vegetables and Fruits  
Khartoum North, Khartoum, Sudan  
**Tel:** +249-1-85-322244, +249-1-85-313751(2)  
**Fax:** +249-1-85-313753  
**P.O. Box:** 268 Khartoum, Postal Code: 11111.

#### *Permanent Address*

Home No. 67, Block No. 11, Al-Safiah, Al-Kadarow Pilot Street, North of  
Al-Safiah Police Station, Khartoum North, Khartoum, Sudan  
**Tel:** +249-1-85-214258  
**Mobile:** +249-912695534  
**E-mail:** moshakis111@hotmail.com

#### *In Case of Emergency, Please contact:*

**Eng. Murwan Abdel Razag Sharif Abubaker (Brother)**  
Home No. 67, Block No. 11, Al-Safiah, Al-Kadarow Pilot Street, North of  
Al-Safiah Police Station, Khartoum North, Khartoum, Sudan  
**Mobile:** +249-913375624/+249-12223064  
**E-mail:** giant883@hotmail.com

### Qualification

June 1994-April 1997	Basheer Mohamed Saeed Model Secondary School, Omdurman, Sudan. <b>(86.7%)</b> , Student No.: 12134, Exam. Date : April 1997 Recipe No.: 42590, Date: 18 May 1998
August 1998- June 2003	Bachelor of Electronics Engineering (Communication), Sudan University of Science and Technology (SUST), Sudan. <b>(First Class, Honor)</b> , Date of award: 8 July 2003.

Certificate No.:0001290, Date:9 December 2003

Student No.:B97430

**University Address:**

Sudan University of Science and Technology,  
Khartoum, Sudan.

P.O. Box: 407 Khartoum,

Tel:+249-183-771514,

Fax:+249-183-778639,

E-mail: acad@sustech.edu

- July 2005- December 2006      Master of Engineering (Electrical- Electronics and Telecommunications), Universiti Teknologi Malaysia (UTM), Malaysia. **(3.81/4.0)**, Date of award: 22 December 2006.  
Certificate No.:2007M-000131, Date:24 March 2007.  
Student No.: ME041097  
**University Address:**  
Universiti Teknologi Malaysia, 81310UTM Skudai, Johor Bahru, Malaysia.  
Tel: +607-5533333 ext.37815,  
Fax: +607-5569511/+607-5537800,  
E-mail: pps@utm.my/graduate@utm.my
- June 2009-April 2012      Ph.D. in Electrical Engineering (Communication), Chulalongkorn University, Thailand.  
Student ID. 527-18555-21  
Chulalongkorn University ,  
254 Phayathai Road, Pathumwan, Bangkok 10330 Thailand.  
Tel: +662-215-0871-3, Fax: +662-215-4804

## **Training & Experience**

- 1-22 July 2001      Training on Transmission Station and Studios, National Broadcasting Corporation, Sudan.
- Since 4 January 2004      Researcher Assistant in Electrical and Electronics Department, Industrial Research and Consultancy Centre, Sudan.
- 4-30 April 2004      Course on Malaysian Technical Cooperation Programme on Electronics and Computer Application for Sustainable Industrial Development, SIRIM Berhad, Malaysia.
- 15-21 December 2004      Short Training Course in Design, Operation and Maintenance of Water Treatment Plants, UNESCO Chair in Water Resources, Sudan.
- 19-20 July 2006      Short course on Teaching Preparation for Teaching Assistant in UTM, Malaysia.

10 July- 5 November 2006 Teaching Assistant in Faculty of Electrical Engineering, Universiti Teknologi Malaysia (UTM), Malaysia.

8-12 February 2009 Training Course on: Energy and Safety Environment, Faculty of Engineering, University of Khartoum , Sudan

### Work Experience (Including Present Job)

Position	Period Of Employment		Name & Address Of Employer	Responsibility
	From	To		
Full time Researcher Assistant	4 Jan. 2004	21 Dec. 2006	Industrial Research and Consultancy Centre, Sudan.	Conducting R&D, maintaining & calibrating the scientific equipment, and providing a technical consultancy in the relevant field.
Full time Researcher	22 Dec. 2006	Up To Date	Industrial Research and Consultancy Centre, Sudan.	
Part time Lecturer	Jan. 2007	Jan. 2009	Network and Computer Systems Dep. Collage of Computer Science and Information Technology, Sudan University of Science and Technology, Sudan.	Lecturer of the following subjects: 1. Data Communication Systems 2. Modern Communication
Part time Lecturer	Jan. 2007	July 2008	Electrical Engineering Dep., Garden City College of Science and Technology, Sudan	Lecturer of the following subjects: 1. Communication Electronics 2. Data Acquisition and Measurements 3. Probability and Statistics 4. Encoding and Data Encryption 5. Electrical Measurements. 6. Digital Communications

Part time Researcher	June 2008	Nov. 2008	Electronic Systems Research Centre (ESRC), College of Engineering, Sudan University of Science and Technology, Sudan.	Directing the R&D activities and providing the needed technical support.
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## Publication

1. **Sharif, O. A. R. (2006), Determination of the Melting Layer from Meteorological Radar Data, the Digital Library of Universiti Teknologi Malaysia, Malaysia. Master of engineering thesis. December 2006.**

### *Abstract*

The bright band is the enhanced radar echo (reflectivity) associated with the melting of hydrometeors in stratiform rain. However; incorrect determination of the bright-band may lead to significant overestimation of precipitation such as rainfall rate reaching the ground, sometimes by as much as a factor of five, as in the example for rainfall rate. Radar has the potential to distinguish between different hydrometeors through the vertical profile of reflectivity by its statistical moments. The vertical profile can be used to determine the bright band. The main objective of this project is to determine the boundaries of the melting layer (bright band) based on the meteorological radar measurements. This determination includes the evaluation of the rain height and zero degree isotherms height. To achieve this description fully, the raw radar measurements have been sorted out, filtered, and decoded, plotted and analyzed. Radar observables have been plotted against the corresponding heights, and their boundaries have been determined according to the enhancement and transition of radar parameters. The results give an acceptable correlation with the international telecommunication union- radio communication sector (ITU-R) recommendations and a good one with the results that are obtained from the precipitation radar on-board the tropical rainfall measuring mission (TRMM) satellite and the characteristics of the melting layer in Singapore, which obtained using S-band polarization-diversity Doppler radar.

2. **Khamis, N. Sharif, O. Hanzaz, Z. Baharom, A, (2007). Month-To-Month Variability of the Melting Layer Boundaries. *Applied Electromagnetics, 2007. APACE 2007. Asia-Pacific Conference on*. 4-6 Dec. 2007, Melaka, Malaysia, Page(s): 1-4. ISBN: 978-1-4244-1434-5.**

### *Abstract*

The Bright-band is the typical enhancement in radar reflectivity during the melting process, which is still not completely determined. The seasonal variation over the year can give the characteristics that are valuable for designing and planning of a satellite link. The Malaysian meteorological radar data, from Kluang radar station (Johor), is used to trace the signature of the melting layer during stratiform precipitations events. The trends of the boundaries of the melting layer were studied by considering data extended to cover a six-month period (January-June 1998). It was observed that the boundaries and the thickness of the melting layer are found to be seasonally dependent.

3. **Khamis, N.H.H. Sharif, O.A.R. Hanzaz, Z. Baharom, A. (2007)**  
*Determination of the Melting Layer from Meteorological Radar Data in Malaysia. IEEE 2007 International Symposium on Microwave, Antenna, Propagation and EMC Technologies for Wireless Communications 14-17 August, 2007 Hangzhou, China Page(s):1467-1470. ISBN: 978-1-4244-1045-3*

**Abstract**

A developed algorithm based on the vertical profile of radar reflectivity, has been applied to determine the boundaries of "the melting layer and its thickness. The average values of the melting layer heights are compared with ITU-R recommendations and other obtained results in tropical regions at 500 m resolution range. The results obtained showed lower values for heights of the melting layer.

4. **Nor Hisham Khamis, Omer Abdel Razag Sharif, Zakaria Hanzaz, Ameruddin Baharom (2007)** *Analysis of the Melting Layer from Metrological Radar Data in Malaysia , International Conference On Robotics, Vision Information And Signal Processing , Park Royal Penang, Malaysia 28-30 November 2007.*

### Reports, Workshops and Training Programme Papers

1. Sharif, O.A.R. (2004). Electronics & Information Industry in Sudan. Country paper in International Training Programme on Electronics & Computer Application for Sustainable Industrial Development. SIRIM, Shah Alam, Malaysia, April 2004.
2. Einas Elmugira Hamed, Omer Abdel Razag Sharif., and Abu Baker Obied. (2008). The Automation in Industrial Research and Consultancy Centre (IRCC), the current situation and the horizons of the development. A detailed report in Automation workshop organized by IRCC and MATS Company (Sudan). Ustaz. Bader Eldeen Sulaiman Conference Hall, IRCC, May 2008. (Written in Arabic language).

### Extra-Curricular Activities

- **A steering committee/team member of :**
  1. A conference on: "Industrial Management in Sudan", Organized by Industrial Research and Consultancy Centre (IRCC), Al-Sharqa Hall, Khartoum , 8 March 2004, Sudan.
  2. A workshop on: "Launching of the Water...in Sudan, Khartoum, Sudan, 2005.
  3. A workshop on: "Condition Based Maintenance", Organized by Industrial Research and Consultancy Centre (IRCC) in collaboration with SFK Company (South Africa), Ustaz. Bader Eldeen Sulaiman Conference Hall, IRCC, 2004.
  4. A workshop on: "Predictive maintenance", Organized by Industrial Research and Consultancy Centre (IRCC) in collaboration with SFK Company (South Africa), Ustaz. Bader Eldeen Sulaiman Conference Hall, IRCC, 2005.

5. A workshop on "Safety And Loss Prevention In Industrial Processes", Organized by Sudan Academy of Sciences (SAS) and Prof. Al Ameen Al Kenzy (workshop provider), Petroleum Training Centre conference Hall, Khartoum, 2005.
  6. A workshop on "Applications of Predictive Maintenance Methods to General Industry", Organized by Industrial Research and Consultancy Centre (IRCC) in collaboration with COMSATS (Pakistan), Ustaz Badr Eldeen Sulaiman Conference Hall IRCC, 2007.
  7. Preparation of Industrial Research and Consultancy Centre (IRCC) Corporate Strategic Plan 2008/2009-2013/2014, July, 2008.
  8. A workshop on: "Bachelor graduation projects, a R&D first step ", Organized by Electronics System Research Centre (ESRC), College of Engineering, Sudan University of Science and Technology (SUST), Sudan. 11 November 2008.
  9. Preparation of Engineering Researches and Industrial Technologies Council Student guide book, Sudan Academy for Sciences (SAS), Sudan. November 2008.
  10. Preparation of Engineering Industries Researches Department year book, 2008, January 2009.
- **Author/Co-author of proposals:**
    1. "Advanced Electronics Technology Centre", as responding to the request of H.E. Prof. Al Zubair Basheer Taha , the Minister of Ministry of Science and Technology (MOST) to Prof. Mawloud Mustafa Al-Hammd (Iraq), Sudan, May 2004.(co-author).
    2. "Advance Electronics Division", a proposal for re-launching the Electrical and Electronics Engineering Division as a research division in the Engineering Industries Researches Department in the Industrial Research and Consultancy Centre (IRCC), February 2007 (Author).
    3. " **Sudan Space Science and Technology Agency (SSSTA)**  ", an initial proposal responding to the request of H.E. Dr. Issa Bishry, State Minister of Ministry of Science and Technology (MOST) to the Director General of Industrial Research and Consultancy Centre (IRCC), May 2008 (Co-author).
    4. "Remote Sensing Centre (RSC) in Sudan", a proposal prepared to submit to the Islamic Development Bank (IDB), Jeddah, Saudi Arabia, May 2008 (Co-author).
  - **Memberships of Professional Associations:**
    1. A graduate member of the Sudan Engineering Society (SES), as from 28 August 2005.
    2. A student member of the Institute of Electrical and Electronics Engineering (IEEE), as from August 2005 to February 2006.
    3. A member of the Sudanese Society for Young Scientists (SSYS), as from 21 January 2007.
  - **Involving in consultancy services in IRCC:**
    1. Assets evaluation of the SEDIC's survey equipment (Trimble type), May 2005. (Team leader).
    2. Feasibility study for launching a power saving fluorescent lamps for the Al-Shagarah Complex for Military Industry, June 2007. (Team member).

3. Technical evaluation, performance test and originality tracing for **MPEG4** Play labeled with “SONY made in Japan”, August 2007. (Team leader).
- **Engaging in research projects in IRCC:**
    1. Reactivate the dead fluorescent lamp using the RF Techniques, May 2004. (Team member)
    2. Design and implementation of Acid Battery Tester, November 2003. (Team member).
    3. Design and implementation of Automated Acid Battery Tester, June 2007. (Team member).
    4. Design and implementation of Basic Electronics laboratory Experimental Board, June 2007. (Team leader).
  - **Computer and programming skills:**
    1. Good computer driving skills.
      - i. Windows Operating system (installation, repair and viruses protection procedures).
      - ii. MS. Office (97-2007).
    2. Good Computer maintenance and installation.
    3. Good Internet exploration, navigation and search skills.
    4. Good Programming Languages: C&C++, Assembly, VHDL and MATLAB ver.6 and higher.
    5. Good Design and simulation programmes: Electronics Work Bench, Circuit maker ver.6, and higher, Microwave Office and Protel DXP.

## References

Associate Professor Benjapolakul, D.Eng.	Watit	Communication Division, Faculty of Electrical Engineering 254 Phayathai Road, Pathumwan, Bangkok 10330 Thailand. Email: watit.b@eng.chula.ac.th; watit_b@hotmail.com Office : Floor 12, Building 4, Tel.(66) 2218 6902, (66) 8 1622 8345 Fax.(66) 2218 6912
Assistant Professor, Dr. Nor Hisham Bin Hj Khamis		Head of Radar Laboratory, Faculty of Electrical Engineering (FKE), Universiti Teknologi Malaysia, 81310UTM Skudai, Johor Bahru, Malaysia. <b>Mobile:</b> +6-0177743884 <b>E-Mail:</b> hisham@fke.utm.my

## Languages

- Arabic, Mother Tongue
- English, Second Language.