


# CURRICULUM VITAE

## **Personal Data:**

Name	Dr. Aamir Hashim Obeid Ahmed	
Place and Date of Birth	Algamlab, 20 June 1971	
Nationality	Sudanese	
Religion	Muslim	
Marriage Status	Marriage with one Child	
Email:	aamir_elec@yahoo.com	
	aamirahmed@sustech.edu	
	aamirelec71@gmail.com	
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## **Present Address:**

Sudan University of Science and Technology (SUST)  
College of Engineering  
School of Electrical and Nuclear Engineering  
Control Engineering Department  
Khartoum, Sudan  
Job Title: Assistant Professor

## **Education:**

- Alshafa West Primary School, Khartoum, 1978-1984.
- Alshafa West Intermediate School, Khartoum, 1984-1987.
- Ali Elsyeed Ali High Secondary School, Khartoum, 1987-1990.

## **Qualifications:**

- PhD in Electrical Engineering, SUST, Khartoum, Sudan, December 2010.
- M.Sc. in Electrical Engineering (Control and Microprocessors), SUST, Khartoum, Sudan, May 2002.
- B.Tech in Electrical Engineering (Control), SUST, Khartoum, Sudan, First class (Honours), November 1996.

## **Thesis Title:**

Advanced Position and Speed Control Techniques for Induction Motors

## **Area of Interest:**

Nonlinear position/speed control techniques in vector control of induction machines, application of fuzzy logic for controlling linear and nonlinear control systems, speed estimation, sliding mode control.

## **Professional Experience:**

- Total year of service: 19 years.
- Assistant professor from December 2010 until now.
- Lecturer from 2002 to December 2010.
- Teaching Assistant from 1997 to 2002.

### **Teaching Experience:**

- **M.Sc. Courses:** Modern Control Systems; Advanced Control Systems; Digital Control Systems; Modeling and Simulation of Mechatronics System; Computer Applications.
- **B.Sc. Courses:** Electrical Circuits; Electrical Circuit Theory; Digital Electronics; Computer Applications; Control Systems Analysis; Control Systems Design; Automatic Control Theory; Digital Control Systems; Multivariable Control Systems.

### **Supervision of Postgraduate Students:**

Supervisor for many M.Sc. students.

### **Other Related Experience:**

- Part-time lecturer in many Sudanese Universities such as Blue Nile University.
- Part-time assistant professor in Mugtrabeen University, Khartoum, Sudan.
- Reviewer for a number of international journals:

### **Administrative Experience:**

- Head of Control Engineering Department, from September 2011 until now.
- Head of Control Engineering Section, from April 2011 to September 2011.

### **Membership of Scientific and Professional Societies:**

- Member of College of Engineering Cancel (SUST), Khartoum, Sudan.
- Member of SUST Senate, Khartoum, Sudan.

### **Honors, Awards and Grants:**

- Scholarship, (SUST), Sudan, 2000.
- Scholarship, Heriot-Watt University, Edinburgh, UK, 2005.
- Scholarship, (SUST), Sudan, 2010.

### **Journals and International Conferences Publications:**

- **Aamir Hashim Obeid Ahmed**, ‘Speed Estimation for Indirect Field Oriented Control of Induction Motors Using Extended Kalman Filter’, SUST Journal of Engineering and Computer Sciences (JECS), Vol. 17, No. 1, pp. 12-19, 2016.
- **Aamir Hashim Obeid Ahmed**, Giddani Kalcon, Nagm Eldeen Abdo Mustafa Hassanain, “Model Reference Adaptive System Sensorless Vector Control of an Induction Motor Using a Novel Fractional Order PI Controller Adaptation Mechanism”, International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), Volume 1, Issue 3, pp. 211-217, May-June 2015.
- Giddani Kalcon, Abdelaziz Y. M. Abbas, **Aamir Hashim Obeid Ahmed**, Nagm Eldeen Abdo Mustafa Hassanain, “Sahara Desert Interconnected DC Network”, International Journal of Scientific and Engineering Research (IJSER), Volume 6, Issue 5, pp. 1365-1372, May 2015.

- **Aamir Hashim Obeid Ahmed**, ‘Speed Sensorless Vector Control of Induction Motors Using Rotor Flux based Model Reference Adaptive System’, SUST Journal of Engineering and Computer Sciences (JECS), Vol. 16, No. 3, 2015.
- Giddani O. A. Kalcon, Abdelaziz Y. M. Abbas, **Aamir Hashim Obeid**, “Voltage Control of Wind Farm Base on FSIG Using Static Synchronous Compensator”, International Journal of Engineering and Technical Research (IJETR) ISSN: 2321-0869, Volume-2, Issue-10, pp. 147-152, October 2014.
- **Aamir Hashim Obeid Ahmed**, ‘Speed Control of Vector Controlled Induction Motors Using Integral-Proportional Controller’, SUST Journal of Engineering and Computer Science (JECS), Vol. 15, No. 2, pp. 72-79, 2014.
- **Aamir Hashim Obeid Ahmed**, ‘Optimal Speed Control for Direct Current Motors Using Linear Quadratic Regulator’, SUST Journal of Engineering and Computer Sciences (JECS), Vol. 14, No. 3, pp. 32-38, June 2013.
- **Aamir Hashim Obeid Ahmed**, ‘Performance Comparison of Sliding Mode Control and Conventional PI Controller for Speed Control of Separately Excited Direct Current Motors’, Journal of Science and Technology-Engineering and Computer Sciences (ECS), Vol. 13, No. 2, pp. 74-80, December 2012.
- **Aamir Hashim Obeid Ahmed**, ‘High Performance Speed Control of Direct Current Motors Using Adaptive Inverse Control’, WSEAS TRANSACTIONS on SYSTEMS and CONTROL, Issue 2, Vol. 7, pp. 54-63, April 2012.
- **Aamir H. O. Ahmed**, Martino O Ajangnay, Shamboul A. Mohamed, M. W. Dunnigan, ‘Combined Sliding Mode Control with a Feedback Linearization for Speed Control of Induction Motor’. Iraq Journal Electrical & Electronic Engineering, Iraq, Vol. 7, No. 1, pp. 1814-5892, 2011.
- **Aamir H. O. Ahmed**, Martino O Ajangnay, Shamboul A. Mohamed, M. W. Dunnigan, ‘A new Technique for Position Control of Induction Motor Using Adaptive Inverse Control’. Iraq Journal Electrical & Electronic Engineering, Iraq, Vol. 6, No. 2, pp. 1814-5892, December 2010.
- **Aamir H. O. Ahmed**, Martino O Ajangnay, Shamboul A. Mohamed, M. W. Dunnigan, ‘Speed Control of Induction Motor Using New Sliding Mode Control Technique’. Iraq Journal Electrical & Electronic Engineering, Iraq, Vol. 6, No. 2, pp. 111-115, December 2010.
- **Aamir H. O. Ahmed**, M. W. Dunnigan, Martino O Ajangnay, ‘A novel Approach for Speed Control of Induction Machine Using Adaptive Inverse Control’, UPEC 2010, 45<sup>th</sup> International Universities’ Power Engineering Conference, Cardiff, Wales, UK, 31<sup>st</sup> August to 3<sup>rd</sup> September 2010.
- **Aamir H. O. Ahmed**, M. W. Dunnigan, Martino O Ajangnay, ‘New Approach for Position Control of Induction Motor’, UPEC 2010, 45<sup>th</sup> International Universities’ Power Engineering Conference, Cardiff, Wales, UK, 31<sup>st</sup> August to 3<sup>rd</sup> September 2010.
- **Aamir H. O. Ahmed**, M. W. Dunnigan, Martino O Ajangnay, ‘Position Control of Induction Machine Using New Technique to Reduce Chattering’,

UPEC 2010, 45<sup>th</sup> International Universities' Power Engineering Conference, Cardiff, Wales, UK, 31<sup>st</sup> August to 3<sup>rd</sup> September 2010.

- **Aamir H. O. Ahmed**, M. W. Dunnigan, Martino O Ajangnay, 'Methods of Computation of Optimal PID controller Parameters for Vector Control of Induction Motors', UPEC 2010, 45<sup>th</sup> International Universities' Power Engineering Conference, Cardiff, Wales, UK, 31<sup>st</sup> August to 3<sup>rd</sup> September 2010.

### **Professional Development:**

Attending courses, workshops and conferences such as:

- Basic Training Course for the Development of the Professional Performance of the University Teacher, Sudan University of Science and Technology, Khartoum, Sudan, from 1 March 2015 to 19 March 2015.
- Training Course in the Basics of the Self-Evaluation and Accreditation, Sudan University of Science and Technology, Khartoum, Sudan, 6 December 2011.
- PhD Research Presentation Day 2007, Electrical, Electronic and Computer Engineering, School of Engineering and Physical Sciences, Heriot-Watt University, Edinburgh, UK, 2007.
- English Integrated Skills, Heriot-Watt University, Edinburgh, UK, 15 April-10 June 2007.
- English Reading, Listening and Speaking, Heriot-Watt University, Edinburgh, UK, 3 January-10 March 2007.
- English Academic Writing, Heriot-Watt University, Edinburgh, UK, 3 January-10 March 2007.
- PhD Research Presentation Day 2006, Electrical, Electronic and Computer Engineering, School of Engineering and Physical Sciences, Heriot-Watt University, Edinburgh, UK, November 2006.