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Personal data

Name: Hashim Ali Mohamed Salem

Date and place of Birth: 17/11/1952, Shendi / Sudan

Nationality: Sudanese

Religion: Muslim

Marital status: Married with 7 children

Present address :

Sudan university of science & Technology

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Home address: street No.61, house No.8 college of Engineering staff residence.

Education :

- shendi north primary school (1961-1965).
- shendi alahlia intermediate school.(1965-1969).
- shendi high secondary school (1969-1973).

Qualifications:

- Khartoum polytechnic (Sudan) – (1973-1976),Diploma in textile engineering, First class.
- Almansoura university (Egypt) – (1976-1981), College of engineering, B.sc of textile engineering, First class.
- Ph.D , textile engineering (1989) university of new south wales, Sydney, Australia.

Thesis Title: Effect of technological Processes on power consumption of a weaving machine.

Area of Interests: The use of geotextile on our day living basis, roof protection, membranes for roads, geotextile reservoirs, revetments for rivers, soil erosion, floods protection.

Professional Experience:

- Teaching assistant, University of Sudan for Science & Technology (sust), 1981.
- Assistant professor (sust), 1989.
- Associate professor (sust), 1997.
- Professor of textile Engineering (sust), 2010.

Teaching experience:

Undergraduate:

- Mechanics (statics & dynamics).
- Theory of machines.
- Machine design.
- Weaving Mechanics.
- Shuttleless Weaving.
- Mechanics of machines.
- Nonwovens.
- Weaving Technology.

Postgraduate:

- Geotextiles (at Msc. level)
- Statistics & probabilities (at Msc. level)

Supervision of post. Graduate students:

- a. Sudan University of Science & Technology.

Main supervisor for 5 M.sc students.

Main supervisor for 2 Ph.D students.

Co-supervisor for 3 Ph.D students.

- b. Other Universities:

Main supervisor for 2 Ph.D students (Gezira University).

Main supervisor for 2 M.sc students (Khartoum & Gezira Universities).

Co-supervisor for 2 Ph.D students (Gezira University).

Research Projects:

- Hand weaving in Sudan/ Egypt & Ethiopia.
- Developing and designing of a new sley mechanism for weaving looms.
- Using geotextiles in natural hafirs.
- New Irrigation methods using tubular technical fabrics.

Administrative Experience:

- head of the textile Engineering department (SUST), (1990 - 1994)
- head of the department of engineering & industrial technology, (three departments on one campus, called north campus; textile, leather & plastic engineering) (2000-2001)
- dean assistant for administration (SUST), north campus (2001-2004)
- deputy dean of the college of engineering (SUST); (2004-2006).
- Dean of college of technology (2006-2008).
- Principal of Sudan university of science & technology (2009).

Memberships.

- chairman, faculty board, college of Technology.
- Member, faculty board, college of engineering.

- Member, faculty board, college of petroleum engineering.
- Member of the committee of examination.
- Member, faculty board, college of distance learning.
- Member of the academic committee.
- Member, research council, college of engineering.
- Member , Deans council , Sudan University of Science and Technology.
- Member, teaching staff council (SUST)
- Member, university council (SUST).
- Chairman , Principal Council
- member , Sudanese engineering society
- member , Egyptian engineering society
- member , society of Sudanese INVENTORS

Extra Curricular Activities

- Development of hand weaving looms from the point of design, speed & production.
- Local manufacturing of spare parts for the textile industry.
- Conversion of Sudanese Asbestos fibers into yarns for the first time.
- Development of the existing cones carrier of the shuttle weaving machines to a simple one.
- Development of the massive hand loom's shuttle to a small shuttle of high velocity running on wheels.
- Development of the existing sley mechanism to a bottom shoe mechanism.
- The initiator & the establisher of the qualifying course for the vocational training students (1994-1995).
- Member of the referee committee of the association for the promotion of scientific innovation.
- The first head department who has the honor of initiation & implementation of the course of the bachelor of textile technology (1992).
- The establisher of the specialization of textile technology in the vocational training centers.
- The referee of the book (knitting technology) written by Dr. Algalib (SUST).
- Consultant of the only free bond in Sudan that Supply inputs to textile, leather & Plastic industries (1995).
- National consultant of the (UNDP) For the textile industry (1996).
- Consultant of many textile factories ,Blanket factory, Nile textile factory (Korean), alhuda factory ..etc

- Designing of many small machines & equipments used widely by the production families program.
- Reviewer of the Journal of Science & technology (sust).
- Reviewer of the Journal & Technology (Gezira University).
- Reviewer of the Journal of Standards & measurements.

List of Publications:

1. Fadl –Elmoula Abd-alla, Abubakar Elsidig & **Hashim Ali Salem (2004)**, computer assisted fabric properties design. J.Sc. Tech. Vol. 5(1), PP. 42-51.
2. Fadl –Elmoula Abd-alla, Abubakar Elsidig & **Hashim Ali Salem (2005)**, computer simulated woven fabrics design. J.Sc. Tech. Vol. 6(1), PP. 54-63.
3. Fadl –Elmoula Abd-alla, Abubakar Elsidig & **Hashim Ali Salem (2006)**, computer simulated properties of blended yarns. Gezira Journal of Engineering and applied sciences Vol. 1(1), PP.25-34
4. **Hashim Ali salem** , Amal Suliman , Moataz Sorkati (2009) , making use, of the wasted power by the sley mechanism of shuttle looms. J.Sc. Tech. Vol. (4), September (2009), PP.15-28.
5. **Hashim Ali salem** , Mohamed A. Algalib (2011) , Quantities & locations of Usher plant in Sudan [A study on Usher Biomass in Sudan]. J.Sc. Tech . Vol 13, No. 3, pp: 105-110, Dec 2011.
6. **Hashim Ali salem** , Mohammed A.. Algalib (2011), effect of size of balls and fiber location inside the ball on Usher fiber length. J.Sc. Tech. Vol 13, No. 3, pp: 111-114, Dec 2011.
7. **Hashim Ali salem** , Amal Suliman , Modather said Mohammad (2009) , The affect of the length & the connecting rod of the crank on the distance, velocity & acceleration of the sley of a weaving machine. J.Sc. Vol. (4), September (2009), PP.29-56.
8. **Hashim Ali salem** , Mohamd A.Algalib (2009), Nonwovens from Usher/Easter Fibers. J.Sc. Tech. Vol 13, No. 1, pp: 54-58, Jun 2012.
9. **Hashim Ali salem** , Amal Suliman (2009), Solving the problem of soil erosion of the river Nile by using geotextile. Mansoura Engineering Journal (Egypt). Vol. 34 (3), PP. 11-20.
10. **Salem, H.A** (2011), A new Technique for Continuous Measurement of the Cloth Fell Movement and Some of its Applications. J.Sc. Tech. Vol 12, No.(2) Dec. 2011, pp. 76-84.
11. **Salem, H.A** (2011) , The Actual Power used to Produce the Fabric by Each of the Basic Mechanisms of the loom with Respect to loom Speed. J.Sc. Tech J.Sc. Tech, Vol 13, No. 2, pp: 95-104, Dec 2011.

12. **Salem, H.A** (2010), Modifications Added to the Existing Government Hafir Type using Geomembrane. J.Sc. Tech. Vol 13, No.2, PP:13-24,2012 .
13. **Salem, H.A** (2010), The Effect of loom Speeds and Shed Heights On Beating force. (JECS), Vol. 15, No. 1,PP: 1-6 January 2014
14. **Hashim Ali salem** , A.M.Alkashif and M.K.Osman (2010) , Design and Application of a New Warp Stop Motion by Using a Laser Beam. J.Sc. Tech. Vol. 13, No. 2, PP, (2012).
15. **Hashim Ali salem** , Abeer Abbas Hussein (2010) , A new Design for the Sley Mechanism of a Weaving Machine (theoretical) . J.Sc. Tech [In Press].
16. **Hashim Ali salem** , Amal Suliman (2010) A new Technique For The Determination of the machine Timing, Shuttle Location and Shuttle Speed by Using Electronic Triggers. J.Sc. Tech. Vol 13, No.2, PP:1-12,2012 .
17. **Hashim Ali salem**, دراسة تأثير طول زراع الكرنك على المسافة و السرعة والعجلة للدف في نول النسيج" مجلة العلوم و التقنية مجلد 12 فبراير 2011 صفحات 177 – 209
18. **Hashim Ali salem** الاستفادة من الطاقة المهذرة بواسطة الدف فى الماكينات الماكوكية" مجلة العلوم و التقنية مجلد 10 (4) فبراير 2009 صفحات 15 – 28
19. **Hashim Ali Salem**, Elfadil Mahmoud Mohamed Karsany (2015) Performance of Dyeing and Printing of Polyester Viscose Yarns Blends for Clothing Use. (JECS), Vol. 16, No. 1, 2015.PP: 1-6
20. الخواض علي الفكي، عثمان أحمد المصطفى حياتي، هاشم علي محمد سالم
أثر تطبيق إدارة الجودة في تبسيط إجراءات حجز المواعيد في مراكز صيانة السيارات في مدينة الرياض- المملكة العربية السعودية، مجلة العلوم الإنسانية، مجلد 14(3)، صفحات 1 – 22(2014).
21. عثمان أحمد المصطفى حياتي، هاشم علي محمد سالم
أثر تطبيق إدارة الجودة في تبسيط وتحسين عملية الإصلاح في مراكز صيانة السيارات في مدينة الرياض- المملكة العربية السعودية، مجلة العلوم الإنسانية، مجلد 15(1)، 2014، صفحات (206-227) 2014م.

Seminars, conferences Symposia:

- Seminar at the University of New South wales, Australia (A new design for a 2- watt metes).
- Seminars at the University of Sudan (Using geotextile in various engineering applications).
- Seminars about the textile industry in Sudan.

Patents:

- Patent No. (65/473), A hand weaving loom called ALFAHIM having extra advantages, compared with the existed ones.

- Patent No. (95/468), A hand weaving loom called HASHADIL with a Shuttle running on wheels , (Fast hand loom).
- Patent for house roof protection against rain by using geotextile.
- Geotextile for road protection from underwaters by using technical fabrics.

Referees:

1. Prof. AHMAD ALTAYEB AHMED, Professor at Sudan University of Science & Technology.
2. Prof. SHAMPOOL ADLAN MOHAMAD, Dean Faculty of Engineering (Expatriate University).
3. Prof. GADALLA ELHASSAN, Deputy Vice – chancellor, (sust).