

Curriculum Vitae

S.Jim Hawkinson, M.E.,(Ph.D).,

1178, Vijayaragavan Nagar, Jagir Ammapalayam , Salem – 636302, India.

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Education

Ph.D. Faculty of Information and Communication Engineering (persuing)

(Specialization in VLSI based Biomedical Devices)

Part time under Anna University – Chennai

M.E. Faculty of Electronics and Communication Engineering

(Specialization in VLSI Design)

Muthayammal Engineering College, Part time under Anna University – Coimbatore, India, CGPA 7.93, June 2011.

B.E. Electronics and Communication Engineering

SSM College of Engineering, Anna University, Chennai, India, 65%, May 2006.

Professional Experience

June 2022 to till date

**Asst.Prof, Dept. of Biomedical Engineering,
E.G.S.Pillay Engineering College (Autonomous) , Nagapattinam - 611002.
India**

- Department Association Coordinator- Biomeedeers
- Faculty Advisor – BMESI Student Chapter
- BOS Member
- Department Timetable Incharge
- Department NBA Coordinator
- Department Project Coordinator

September 2015 to June 2022

**Asst.Prof, Dept. of Electronics and Communication Engineering,
E.G.S.Pillay Engineering College, Nagapattinam - 611002. India**

- Placement Officer (2015-16)

- Chief Warden – EGS Pillay Engineering College (2015-16)
- Department Library incharge(2016 onwards)
- Class Advisor (2016 -2017).
- Project Expert team (2016 Onwards) both UG & PG
- Motivated the students to carry out various projects and present papers in project contest / symposiums / conferences which won prizes in various science and technology exhibitions at various levels

July 2014 to June 2015

**Asst.Lecturer, Institute of Virtual and Distance Learning ,
D.M.I St.Eugene University, Zambia**

- Creating Modules for the Courses
- Floor manager of studios
- Exam Committee Coordinator

September 2007 to May 2014

**Asst.Prof, Dept. of Electronics and Communication Engineering,
Muthayammal Engineering College, Rasipuram – 637408. India**

- Coordinator - National Level Technical Symposium –(ELCOMM 13)
- Organizing Secretary MULTICON (International Conference on Advanced Communication Technologies – 2012)
- Coordinator - National Festive of Science and Engineering Schools –(NFSES 2012)
- Class Advisor for Anna University Coimbatore Direct Entry Students (2007 -2008).
- College Sports Coordinator (2008 -2014)
- Department Time table In charge (2007-2009)
- Department Anna University Coimbatore Auditing In charge(2007-2009)
- Department Industrial Visit in Charge (2007- 2009).
- College NSS Coordinator (2008 - 2011).
- Organized two Skill Development Programme for unemployed youth (TV and Radio Servicing, Electronic Equipment servicing).
- Department Placement coordinator (2009 -2014)
- Best Placement Coordinator - 2012
- Gents Hostel – Chief Residential tutor & Deputy Warden (2008-2012).
- As coordinator, organized two skill development programme for unemployed youth.
- Organized two NSS Special programming camps, two RRC Programmes.
- Motivated the students to carry out various projects and present papers in project contest / symposiums / conferences which won prizes in various science and technology exhibitions at various levels

December 2006 to August 2007

**Lecturer, Department of Information Technology,
Thiyagarajar Polytechnic College, Rasipuram**

- Established Advanced Computer Lab with high state of art equipments
- Actively provided valuable guidance for the students to plan for their career growth as placement coordinator (self financing)
- Developed a software to maintain the equipments of all the departments through Visual Basic
- Project coordinator for the Department of Computer Science Engineering and Information Technology.

Honors and Awards

- **Certified FOOD SAFETY SUPERVISOR, FSSAI India**
- **EX - Executive Committee Member & Joint Secretary IEEE India CASS Chapter.**
- **Ex - Secretary, IEEE India SSCS chapter**
- **Best Placement coordinator , 2012**
- **Best Student Volunteer RSP, 2001**

Programmes Organized as Coordinator

- **Coordinator – 2 Days Hands on Training on Biomedical Equipments by Atheena Pandian Pvt.Ltd on 22nd September and 23rd September 2022**
- **Coordinator – One day IEEE INDIA SSCS Chapter approved seminar on Recent trends and approaches in Solid State Devices on 16.12.2017**
- **Coordinator – ELCOMM 13 National level Technical Symposium -27.02.2013**
- **Co- Coordinator – AICTE Sponsored seminar on MEMS/ Nanotechnology Integration for Biomedical Applications- 24.05.2012-25.05.2012**
- **Organizing Secretary- MULTICON (International Conference on Advanced Communication Technologies – 2012) -20.04.2012-21.04.2012**
- **6th National Festive of Science and Engineering Schools – 02.03.2012**
- **TCS Sponsored RFID Workshop – 07.02.2011**
- **IETE sponsored Skill development programme for unemployed youth 9.04.2009 – 10.04.2009**
- **Faculty Development programme on Agilent Multipurpose Lab Station 15.09.2008**

Academic Projects

- **ANTI CANCER DRUG FLOW INFUSION SYSTEM.**

- EQUIPMENT INFORMATION SYSTEM.
- IMPLEMENTATION OF SMART WIRELESS NETWORKING FOR TEMPERATURE MEASUREMENT AND CONTROL.
- CAN BASED CAR SECURITY SYSTEM.
- ATM FOR VISUALLY IMPAIRED.
- GSM BASED INDUSTRIAL AUTOMATION.
- ZIGBEE BASED INDUSTRIAL PROCESS MONITORING AND CONTROL.
- REDUCED TRANSITION PIPELINING FOR DIGITAL SIGNAL PROCESSING APPLICATIONS
- BLOOD VESSEL SEGMENTATION IN ANGIOGRAM USING K- MEANS ALGORITHM
- GENETIC ALGORITHM BASED PWM CONTROLLER FOR HARMONIC REDUCTION IN NON LINEAR LOADS.
- PERFORMANCE COMPARISON OF CMOS AND FinFET FOR VLSI APPLICATIONS.
- A NOVEL 3-D COLOUR HISTOGRAM EQUALIZATION WITH UNIFORM 1-D GRAY SCALE HISTOGRAM.
- AUTOMATIC SPEED CONTROL OF VEHICLES IN ACCIDENTAL ZONES.
- INTELLIGENT BLOOD COLLECTING APPARATUS BASED ON INTERNET WORKING.
- SELF DISPOSAL & LOCK METHOD FOR EXPIRED CONSUMER PRODUCTS.
- PERFORMANCE ANALYSIS AND COMPARISON OF DRAM FOR CMOS AND FinFET TECHNOLOGIES.
- STEREO TO BINAURAL CONVERSION
- SMART TRAFFIC LIGHT CONVERTOR
- MODELLING AND SIMULATION OF FINFET SRAM BEYOND CMOS TECHNOLOGIES

Papers Presented / Published in Conferences

1. R.Baskar, **S.Jim Hawkinson**,” Performance Analysis and Comparison of Dram using CMOS and FinFET Technologies” , Third National Conference on VLSI, EMBEDDED SYSTEMS, SIGNALPROCESSING AND COMMUNICATION (VESCO - 2013), Kongu Engineering College, Erode, 20th March 2013. (Page no 14-18).
2. R.Prabakaran, **S. Jim Hawkinson** , “Modelling and Simulation of FinFET SRAM Beyond CMOS Technologies”, National Conference on "Trends In Automotive Parts Systems and Applications" - TAPSA 2013 , Society of Automotive Engineering (SAE) INDIA SKCET Collegiate Club, Coimbatore - 08 , Tamil Nadu, India, 14th March 2013.

3. **S. Jim Hawkinson**, Dr.M.Madheswaran ,” Analysis and Performance Comparison of CMOS and FinFET for VLSI Applications”, The Second International Congress of Interdisciplinary Research and Development, Bangkok, Thailand, 1st June 2012 .
4. **S.Jim Hawkinson** & Dr.M.Madheswaran ,” Analysis and Performance Comparison of CMOS and FinFET for VLSI Applications”, National Conference on Electronic Technologies- 2k12, Goa College of Engineering, Goa, 13th & 14th April 2012 (Page.No: 161-164).
5. Ramprasath S, Sankar B, Thirupathi V C & **Jim Hawkinson S**,” Self Disposal And Lock Method For Expired Consumer Products”, National Conference on Advanced Materials and Processing Technologies- AMPT 2012”, School of Engineering and Technology and Center of Research and Development, PRIST University, Vallam, Thanjavur, 17th and 18th February 2012.
6. K.C.Arunkumar, S.Arvinth, J.Jayaramachandran & **S.Jim Hawkinson**, “Reduced Transition Pipelining for Digital Signal Processing Applications”, National Conference on Communication, VLSI and Signal Processing, Rajaas Engineering College, Vadakkankulam, 7th & 8th April 2011.
7. **S.Jim Hawkinson** & Dr.M.Madheswaran ,” Performance Comparison of CMOS and FinFET for VLSI Applications”, , National Conference on Communication, VLSI and Signal Processing Rajaas Engineering College, Vadakkankulam, 7th & 8th April 2011.
8. K.C.Arunkumar, G.Thangasamy, **S.Jim Hawkinson** & B.Priestly Shan,” Personal Area Network for Biomedical Monitoring System”, ICACS -2010, KSR College of Technology. Thiruchengode, 10th February 2010.
9. **S.Jim Hawkinson**, “Cancer curing using Nanotechnology”, National Conference on Computer Applications”, CTCA-08, Muthayammal Engineering College, Rasipuram, 27th February 2008.
10. **S.Jim Hawkinson**, “Cancer curing using Nanotechnology”, state level seminar on” Growth and Applications of Nanotechnology”, NANTEC-08, Muthayammal Arts and Science College, Rasipuram, 24th and 25th January 2008.
11. **S.Jim Hawkinson**, R.Kalaibharathi ,”VLSI Design For Future Mobile Communication And Applications”, International seminar on innovation – the corporate mantra in the era of globalization , 26th October 2007.

Papers Published in Journals:

1. **S.Jim Hawkinson,** ” Analysis and Performance Comparison of CMOS and FinFET for VLSI Applications” , International Journal of Emerging Technology and Advanced Engineering, Volume 3, Issue 2, pp 42-45, February 2013. ISSN 2250–2459(Online).
2. R.Baskar, **S.Jim Hawkinson,**” Performance Analysis and Comparison of Dram using CMOS and FinFET Technologies” , International Journal of Computer Applications (0975 – 8887). ISBN: 973-93-80873-94-0h . URL:
<http://www.ijcaonline.org/proceedings/ncves/number2/11316-1313>
3. Saravanan R, Kalaiyarasi M, **S. Jim Hawkinson,** D Sathya , “Evaluation of Power Delay Product for Low Power Full Adder Circuits based on GDI Logic Cell using Mentor Graphics “,International Journal of Emerging Technology and Advanced Engineering www.ijetae.com (ISSN 2250-2459, ISO 9001:2008 Certified Journal, Volume 4, Issue 3, March 2014) .
4. S.Praveenkumar, **S. Jim Hawkinson,** M.Vijayakumar , “Performance Analysis Of Multiple Valued Gates “, South Asian Journal of Research in Engineering Science and Technology ,www.sajrest.com (ISSN 2455-9261, Volume 2, Issue 3, April 2017) .
- 5.

CENTUM RESULTS GIVEN:

S.No	Name of the subject	Class Year / Sem	Academic year
1.	Signals and Systems	Anna Univ DE ECE – I /II	April 2008
2.	Microwave Engineering	ECE – IV /VII	Nov 2009
3.	Mobile Communication	ECE – IV /VIII	April 2010
4.	Television and Video Engineering	ECE – IV /VII	Nov 2010
5.	Wireless Networks	ECE – IV /VIII	April 2012
6.	Principles of Management	ECE – III /VI	Nov 2012
7.	Professional Ethics and Human Values	ECE – IV /VII	Nov 2012
8.	Professional Ethics and Human Values	ECE – IV /VII	Nov 2013
9.	Principles of Digital Electronics	CSE – II /III	Nov 2018

Workshops, Seminars and Short-term Courses attended

- Attended the 120 Minutes International Online Webinar on "Upcoming Trends in Wearable Electronics and Internet of Things (IoT)" by NITTTR, Chennai on 15.10.22
- Attended Webinar on "Applications of Artificial Intelligence in Healthcare Sectors" conducted by Department of Biomedical Engineering and Internal Quality Assurance Cell (IQAC) Karpaga Vinayaga College of Engineering and Technology held on 10th October 2022.
- AICTE Sponsored Staff Development Programme on Signal and Image Analysis Using Time / Frequency Transforms, Dept of ECE, Muthayammal Engineering College, 30th May 2011 to 12th June 2011.
- One day Workshop on "FPGA Based System Design using Altera Tools", Dept of ECE, Muthayammal Engineering College, 28th January 2010.
- One day Workshop on "LABVIEW", Dept of EIE, Muthayammal Engineering College, 28th January 2010.
- IEEE Sponsored Faculty Development Programme on FPGA Based System Design using EDA Tools., Karunya University, 11th and 12th September 2009.
- "ORIENTATION AND FIRST AID TRAINING FOR PROGRAMME OFFICERS ", Academic campus, Anna University Coimbatore, 26th and 27th March 2009.
- One day seminar on "TCAD and IC CAD Technologies and FPGA Design using Silvaco and Tanner Tools (EC – CAD 08)", Dept of ECE, Muthayammal Engineering College, 8th December 2007.
- One day workshop on Recent trends in MEMS Technology, Dept of ECE, PSNA College of Technology, Dindigul on 22nd August 2008.
- National level workshop on Wireless Communication and Network (WCNET-08), Oxford Engineering College, Trichy, 22nd March 2008.

- One day seminar on “Current trends in VLSI design”, Dept of ECE, Karpagam college of Engineering, Coimbatore, 8th December 2007.

Membership in Scientific and Professional Societies

Life Member – Biomedical Engineering Society of India (BMESI), INDIA

Life Member – International Association of Computer Science and Information Technology (IACSIT), Singapore.

Life Member – International Association of Engineers (IAENG).

Life Member : Indian Society for Technical Education (ISTE), India

Life Member :Institution of Electronics and Telecommunication Engineers, IETE-India

Countries Visited

- Singapore, Malaysia, Srilanka, Thailand, Zambia.

(S.Jim Hawkinson)