

## Dr. ASWINI M



No. 122 B, Porur garden, Phase II , Vanagaram  
Chennai-600095.

India



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aswini\_textiles@yahoo.com



### PROFESSIONAL

11 Years of experience in various areas of Textile field – 8 years Research experience, 2 years of Industrial experience, 6 months of teaching experience.

### SUMMARY

### AREAS OF EXPERTISE

Absorbent textiles (technical textiles), Textile chemical processing, Textile Testing and analysis, Ability to learn and implement, Research skills, Ability to design new products according to the requirements, Team leader

### SKILLS

- Passionate in Research
- Research problem analysis and solving
- Textile Testing and analysis
- Self-motivated
- Team leadership
- Design and fabrication of experimental work
- Project management
- Process implementation
- Strong verbal communication
- Data management
- Report analysis
- Teaching skill

### WORK HISTORY

#### **CTO – Thermal Textiles and Astronaut Suits- Mar 2021-present**

Vaayusastra Aerospace Pvt. Ltd.,

IITM Incubated Company, IIT Research Park, Chennai

Guiding Internship Students

Syllabus framed for Course work “Aerospace Textiles” for Hindustan University, Chennai

#### **Paper Published:**

Rawal S, Madhubalan A, Manikandan P, Kanna J. Study on the Design of Space Gloves and EVA Suits with Future Challenges. Textile & Leather Review. 2022; 5:18-30.

**RESEARCH FELLOW** – Jan 2011 to 2022

**Anna University, Chennai, India**

**Research Title:**

“DESIGN AND DEVELOPMENT OF LAB-SCALE WET-LAID SETUP AND PROFILE WICKING TESTER FOR THE PRODUCTION AND EVALUATION OF ABSORBENCY BEHAVIOUR OF DISPOSABLE NURSING PAD IN ACTUAL USAGE CONDITION”

- Co-ordinating the workshops and seminars
- Purchase of sophisticated instruments
- Trained in maintenance of lab and lab equipments
- Trained in testing of Dynamic contact angle tester and plasma applicator
- Assisting in research problem solving for B.Tech and M.Tech students.
- Handled Textile processing lab and Textile Testing lab for B.Tech and M.Tech Students.

**Paper Published:**

- **Aswini, M** 2019, ‘Design and fabrication of lab scale wet-laid equipment to develop wet-laid nonwoven for the application of absorbent core of disposable nursing pad’, Journal of Industrial Textiles, **Impact Factor-2.010**, DOI: 10.1177/1528083719893715
- **Aswini, M** 2019, ‘Effect of alkali treatment on single species wood pulp fiber properties for the application of nursing pad absorbent core’, Journal of the Indian Chemical Society Published, **Impact Factor - 0.150**, vol. 96, no.12 , pp. 1559-1568.

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**ASSISTANT PROFESSOR (HOD IN-CHARGE)** – 6/2009 TO 12/2009

**SRI KRISHNA ENGINEERING COLLEGE, PADAPAI, Chennai, India**

Managed and operating a team of Lecturers in the Department of Fashion Technology, Responsible for administrative activities, Setting Lab for subjects such as chemical processing Lab, Pattern making and Garment manufacturing. Conducting seminars by inviting outside experts. Handled Fiber science, Textile chemical processing subjects.

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**BUSINESS ANALYST** - 10/2003 TO 9/2004

**CELEBRITY Fashions (P) Limited, Chennai, India**

- Developed New process for employee evaluation which resulted in marked performance improvements
- Supported Chief operating officer with daily operational functions
- Monitoring cutting and Production KPI's and facilitate the team to achieve the set KPI's
- Directly reporting to Executive Director
- Responsible for Fabric and Trims quality

- Undertaken the project “Improving quality and productivity” in cutting and production department

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**JUNIOR MERCHANDISER – 6/2002 TO 6/2003**

***Sundersons (I) Exports, Salem, India***

- Co-ordinating activities from Sampling to finishing department
- Getting the PP sample approval right first time from Buyer
- In-charge of purchase and stores
- Material order follow-up
- Production order follow-up
- Co-ordinating with Buyer

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## EDUCATION

**Ph. D, Textile Technology,  
Anna University, Chennai, India 2022  
A.C. College of Technology, Anna University, Chennai**

**M. Tech , *Textile Technology* ,  
Anna University, Chennai, India 2008  
7.877 CGPA , A. C. College of Technology, Anna University, Chennai**

Trained in “Tye and Dye” printing.

Paper Published: “ Observations on preparation of nano TiO<sub>2</sub> and its application on cotton fabric”, Colourage, Vol. LVI, No 8, August (2009) 46-49.

**B.Tech, *Textile Chemistry* ,  
Periyar University, Komarapalayam, 2002  
74% First class, SSM College of Engineering, Komarapalayam, Namakkal**

HSC  
Govt. Girls Higher Secondary School, Salem, 1998  
Maths with Computer science  
Secured 72.4% marks in Higher secondary Exam

10<sup>th</sup>  
Bala Bharathi Matriculation Hr. Sec School. 1996  
Secured 67.2% marks in 10<sup>th</sup> public Exam

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## Paper Presented

Paper (oral) entitled “Investigation on preparation of wood pulp samples for the Invention of the absorbent core of the disposable nursing pad” was presented in the International Conference on “ New Technology and Innovative Research Trends in Textile and Fashion” organised by Department of Home science at Mother Teresa Women’s University Research and Extension Centre, Coimbatore on 4<sup>th</sup> March 2019.

## Conference attended

- Workshop on “Biomaterials and Biomineralisation” held at Crystal Growth Centre, Anna University Chennai, on February 1, 2008.
- National Workshop on “Preparation and Characterisation of Nanomaterials (NWPCN-2011)” held during 14-16 March 2011 held at Madras University, Chennai.
- International Conference on “Indutech- 2012” ( Industrial Textiles – Products, Applications and Prospects ) organised by Departments of Textile, Fashion Technology & Automobile Engineering, PSG College of Technology, Coimbatore, India in collaboration with Office of the Textile Commissioner, Ministry of Textiles, Govt. Of India, 3-4, August 2012.
- UGC sponsored Training programme on “ The state of the art – Analytical Instruments” on 26<sup>th</sup> – 30<sup>th</sup> October 2015 organised by Department of Chemical Engineering & Department of Applied Science and Technology Anna University, Chennai-25
- UGC – CEMA (MHRD) Sponsored Seven day workshop on “ Medical Textiles” held from March 14-20, 2016 at Department of Textile Technology, A.C. Tech Campus, Anna University, Chennai-600025.
- DST- Purse Sponsored Seven day workshop on “Statistical Applications in Industry” organised by Department of Textile Technology, Anna University, Chennai -25 from 05- 11 March 2018.

## Lectures and Seminar Attended

- Special Lecture on “ How to do a Good PH. D Thesis” April 10-12, 2012 organised by Center for International Affairs, Anna University, Chennai, India.
- Seminar on Value- based Educational Governance Conducted by Sri Sathya Sai Institute of Educare, Chrompet, Chennai on 08.09.18

## Hobbies

Reading Books , Singing ,Playing Veena , Yoga

Active trainer in Disaster Management Team ( Women's Wing)- Sri Sathya Sai Seva Organisation.

## Reference

1. Dr. V. R. GiriDev  
HOD and Professor  
Department of Textile Technology  
Anna University  
Chennai - 600025
2. Mr. Senthilkumar B  
Plant Manager  
Linea Fashions India Pvt Ltd,  
MEPZ, Tambaram, Chennai  
Mobile No : +91 9840912577
3. Mr. Shyamsundar B  
General Manager- Sourcing  
Linea Fashions India Pvt Ltd,  
MEPZ, Tambaram, Chennai  
Mobile No : +91 8807330522

