

# Awadhoot Shendye

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Doctorate in Printing & Paper Engineering, with the 18+ years of combined experience in printing and packaging field, through the industry work and education. Expert in anti-counterfeiting packaging, printing, medical packaging, paperboard packaging, structural design, package testing, material testing, pre-press, proofing, ink formulation, process engineering, color management, G7, ISO 9001, project management and quality control.

## EDUCATION

### Western Michigan University.

- Ph.D.- Paper & Printing Science (Packaging Color Management) 2014 - 2017
- M.S. - Paper and Imaging Science and Engineering 2008 - 2011

### Michigan State University.

- M.S. - Packaging Science 2014 - 2020

### Pune University.

- B.S. (B.E.)- Printing Engineering and Graphic Communication 2003 - 2006

### M.S.B.T.E.

- Diploma in Printing Technology 2000 - 2003

## PROFESSIONAL EXPERIENCE

### **The Challenge Printing Company:** (Clifton, NJ) –**Technical Development Engineer** Dec 2018- Present

- Anti-counterfeiting & Security printing.
- Package design, testing and development.
- New Product development for pharmaceutical packaging.
- Child resistant packaging for pharmaceutical market.
- Project management of Labels, ECL, Inserts & Folding cartons.
- Printing - HP Indigo, Esko, GMG color, Heidelberg, Mitsubishi, Nilpeter, Webtron.
- Color management and G7 calibration.
- Technical support for customer support team.
- Material, equipment and process validation.
- Technical support on analysis of customer complaints.
- Process engineering and support.
- Support on ISO 9001 internal audits, FDA compliance projects.

### **Oberthur Technology:** (Exton, PA) - **Printing Process Engineer** Mar 2015- Jun 2016

- Security printing on plastics & paper by UV offset, silkscreen and inkjet.
- Expanded gamut printing. Stochastic & hybrid screens.
- Process control, KPI and validation, Material qualification for cost reduction.
- Continuous improvement, quality, efficiency, process safety- EPA, OSHA, PSM.
- Establishing SPC guidelines, Standard Operating Procedures, work instructions.
- Ensure key lean manufacturing tools are known and apply within graphic departments; 5S, Scrap Management, Product flow, OEE, Six Sigma, Changeover, training, machine installation and acceptance,

- North American Color Inc.:** (Portage, MI) - **Project Engineer** Nov 2011- to Mar 2015
- Project Management - Package design & prepress, color management, expanded gamut, G7 calibration.
  - Folding carton, labels, corrugated and flexible packaging project management
  - Gravure, Offset, Flexo, Digital and Inkjet printing. GMG & ICC profiling, Monitor calibration
  - ISO 9001:2008 lead auditor. Internal & External Audits, Management representative.
  - Quality objective & policy. Management review, Document control, Work Instructions, CAR, PAR.
  - Continuous improvement, Calibration, lean manufacturing, cost reduction, 5S, Kaizen
  - Trouble shooting, press characterizations and process workflow validations, Brand color Standard
- Daetwyler R & D:** (Dayton, OH)- **Printed Electronics R&D Intern** Jan 2011- July2011
- Cylinder engraving, Print quality analysis on Accuprint Gravure Printing Machine.
  - Developing partnerships with material suppliers for availability of gravure printable PE inks,
- Huber Group:** (Kankakee, IL) - **Intern** May 2009-July 2009
- SF, UV SF, Heatset & Coldset ink formulation with End-use and Printability requirements testing.
  - Spot Color matching with X-rite Ink Formulation Software.
  - Analyzing raw materials (pigments, resins & additives) for their suitability, quality and cost.
- Flint Group:** (India) – **Ink Laboratory head, QA/QC** Mar 2007-Mar 2008
- Raw material & product testing, Issuing certificates of confirmatory. Press trials of inks
  - Ink formulation- UV & WB flexo, Sheet Fed oil based, Heatset, Coldset, Varnishes & inkjet
  - Lean Manufacturing training (5S, Kaizen), Statistical Quality Control (SPC)
- Parksons Packaging:** (India) - **Ink and Color Engineer (Contract)** Jun 2006-Feb 2007
- Brand/spot color matching, ink room management, RIP curve & plate room management
  - Package prototyping for folding carton and corrugated packaging.
- Daily Prabhat:** (India) - **Printing Process Intern** July 2001-Jan 2002
- Web offset machine: - ink feeding, registration control, paper feeding,
- Western Michigan University:** - **Research Assistant** Aug 2008-Dec 2010
- Paper testing, paper coatings, ink testing surface tension, rheology, DSC,
  - Gravure woodgrain laminate printing color analysis, ink making, color management.
- BILT India:** - Workshop on Color Science and Color Management May 12 & 13, 2006

## **SKILLS**

- MINITAB, ERP, Dalim Twist, Illustrator, Photoshop, InDesign, Esko color engine pilot, Flexproof, Equinox, PressSync, Deshpak, ArtiosCAD, CAPE, Automation Engine, X-rite color Master, Ink formulation, i1 profiler, Colorthink, GMG Color proofing, Microsoft office, EFI Fiery, G7.

## CERTIFICATIONS

- ISO 9001:2008 certified lead auditor.
- G7 Expert
- Gravure Association of America- Gravure basic & Advance seminar.
- Six Sigma Green Belt- Institute of Industrial Engineers,
- Center for Advancement of Printed Electronics "Mastering Printed Electronics Principles"
- Color physics & its application to printing ink

## TECHNICAL COMMITTEES

- International Color Consortium: - ICC architecture working group
- International Organization for Standardization: - ISO TC-130 Graphic technology
- International Commission on Illumination (CIE): - TC 8-13 Gamut mapping
- IOPP- Medical Device- Meadowlands chapter.

## PUBLICATIONS

- 5 research papers published in various journals and conferences like TAGA, TAPPI, Gravure magazine & ISCC.

## RESEARCH

- Ph.D.- Self-Generated Absorption Filter Based Optical Densitometry Calculations for Expanded Gamut and Spot Color Printing on Paperboard for Packaging Applications and Proposed OBA Index.
- M.S. Paper & printing- Study of Metamerism and Inconstancy of Basic Color System Used in Woodgrain Laminate. Funded by OMNOVA solutions. Received best technical paper award by Gravure Magazine for 2011
- M.S. Packaging science final paper: Anti-Counterfeit Carton, an Added Layer of Security in Pharmaceutical Packaging and Supply Chain. Funded by The Challenge Printing Company, NJ.

## SOFTWARE DEVELOPEMENT

- **ColorScope:-** Software developed for creating color standard reports and its CxF3 & CxF4 files. Color Mathematics by Awadhoot Shendye and coding by North American Color IT.
- **ColorScale:-** Software developed for demonstration of Shendye-Fleming Universal density and Shendye-Fleming OBA index. Color mathematics & UI by Awadhoot Shendye. Coding by Aakanksha Jambhekar.

**Hobby:** - Photography- product photography for packaging and advertising and landscape photography.