

Ritu Mishra

Co-Founder & Product Head

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Work Experience

Co-founder & Product Head, Upjao Agrotech LLP

Dec 2020-present

- Lead Product development
- Streamlined whole pipeline system of different product
- Pilots' execution and in-depth customer engagement
- Data collection and automatizing whole data system
- QA planning and designing
- Market research and finding connects

Business Analyst (intern), TransPacks Technologies Pvt. Ltd.

Sept 2019- Mar 2020

- Analysed various technologies available in **anti-counterfeiting space** in India
- Interacted with various **business prospects** to understand the problem faced by them in area of counterfeiting, measures taken by them so far and effectiveness of the current measures
- Proposed the framework for **commercialization** of relatively new technology developed by computer vision and print technology group of the company
- Suggested couple of **value added features** to increase the value proposition of the technology for F & B industry which were very well taken by company leadership and resulted in great customer engagement

Research Associate, National Centre for Flexible Electronics, IIT Kanpur

July 2017- Feb 2019

- Developed India's first Solution Processed Organic Light Emitting Diode (OLED) on **glass/PET substrate** of 20Ω
- Evolved new fabrication process to accommodate **large area OLED** development from 4- 25inch² area substrate
- **Printed PEDOT Hole Injected Layer (HIL)** using **Dimatrix Inkjet Printer** on 4inch² solution processed OLED.
- Characterized **IVL characteristics** of Evaporated & Solution processed OLEDs to make repeatable process
- Analyzed **characterized data and performed lifetime testing** on OLEDs to formulate production level process
- **Fabricated OLEDs** under various controlled environmental conditions like high vacuum nitrogen environment inside glove box and outside glove box in clean room at different humidity, temperature and oxygen levels

Research Intern, Department of Material Science and Engineering, IIT Kanpur

Jan 2017-May 2017

- Worked under Prof Monika Katiyar, HOD MSE on Techniques to improve **photovoltaic module efficiency**
- **Characterized and analyzed** different solar technologies
- Reasoned out **degradation rate** and cause of it on different panel's types
- Studied efficiency of different solar panels during different months of the year

Summer Intern, e-Kisaan, Ministry of Agriculture

June 2015- July 2015

- Reviewed the content of the platform for e-Kisaan, www.dackkms.gov.in and suggested the changes to make the platform more user friendly and interactive
- Worked with farmers of given specific area and provided them the information about best farming techniques and practices to increase crop productivity
- Outlined the gaps present in current communication framework and suggested specific & low-effort solutions

Educational Background

Examination	Institute	Year	CPI/ %
B. Tech. (ECE)	Rayat-Bahra Institute of Engineering & Bio-Technology (PTU) Mohali	2017	75.3
AISSCE	DPS Chandigarh	2012	72.8
AISSE	DPS Chandigarh	2010	9.00

Areas of Interest

Business Analytics

Business Development

Market Research

Semi-Conductor Devices

Skills, Tools and Languages

- Skills:
 - MS-Office, MS-Excel, SQL DB, C++, Origin, Matlab
- Tools:
 - Keithley 2400 power source
 - Spectroradiometer-CS1000, ELQE, Cyclic voltmeter
 - Konica Minolta spectrometer
 - 2D colour analyzer CA-2500)
 - Leica DM2500M(microscope)
 - Spin coater, Slot die
 - Inkjet printer: Diametrix
 - Semiconductor prob station analyzer
 - Hasty ai
 - Roboflow
 - Datasence
 - Clickup
 - Other annotation and managing tools

Key Strengths

- Avid reader, Observationalist, Extrovert, Dancer, Painter, Love debating on anything and everything

Scholastic Achievements

- Got selected in six-months research internship program at IIT Kanpur, 2017
- Ranked 5th in electronics and communication engineering in 2013 class of RBIEBT

Research Paper Publications

1. Super Yellow based Organic Light Emitting Diodes on Flexible Substrate - Performance and Scalability. (Applied)(IEEE-ICEE)
2. Performance Optimization and Lifetime improvement of Polymer Light Emitting Diode - towards low cost flexible devices. (Applied) (Frontiers of Organic Semi-Conductor Lasers (FOSL))

Positions of Responsibility

- Awarded as one of the top women entrepreneur of the year 2023 in the category App developer
- Success story coverage on Decision Maker Magazine
- Part of IITD ISRAEL AEP batch (Top 22 young women entrepreneur)
- **Coordinated** presentations for summer course at NCFlexe, IIT K
- Presented research & dev. work of NCFlexe at International workshop on Physics of Semiconductor Devices 2017
- Organized Technology day demonstration on behalf of SCDT at IIT Kanpur

Co-Curricular and Extra Curricular Activities

- **Second position** in Math's Quiz (2014) during technical fest at RBIEBT (PTU).
- **Team Coordinator** of technical fest, TECHNO VERSA (2014) at RBIEBT (PTU).
- **Technical Event participation** in Kirchoff's playground (2015) at RBIEBT (PTU).
- Inters-DPS Fusion Dance Competition (2007)
- **Second position** in Inter-DPS Fusion Dance Competition (2008)
- **National Level** Inter DPS creative **dance competition** (2008)
- Three years “ **KATHAK** “ training with **1st division** marks

Personal Details

Language Known: Hindi, English, Punjabi and Maithili

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