Dr. Subodh Panda

Ph.D. (CSE)/ M.Tech. (CSE) / PG Diploma (Instrumentation) / MIE (ECE)

subodh.panda@gmail.com

+91 94373 26277 / 93379 94245 /

Entrepreneurship | Innovation & Start-up Operations | Patents | Research & Development

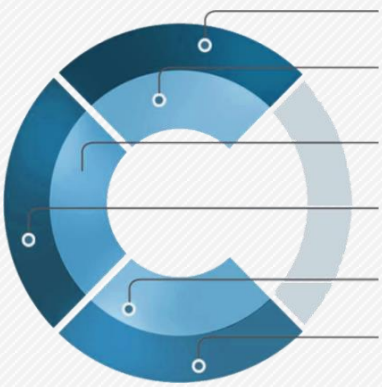
PROFILE SUMMARY

- **A rigorous, task-driven Qualified professional with total experience of over 25 years, involving 14 years in Academics in UG & PG Level of Engineering and 11 years of industrial experience in Maintenance / Operation / Testing of Field Instruments & Control Loop**
- Carried out the role of an Academic Lead, i.e. sustaining a shared sense of direction for the discipline and a shared participation in the University's success through engagement with University strategies ensuring decisions are taken forward effectively by all staff they lead, enabling, supporting and celebrating individual achievement
- Excellence in leading and developing internal & external networks to foster collaboration and share information and ideas to promote the subject and the University
- Comprehensive experience in Industrial Research, Publications & Paper Presentation at various National & International Conferences
- Distinctive expertise in managing preventive, corrective & troubleshooting maintenance and testing of all plant instrument process monitoring & control protective equipment
- Delivered competitive advantage by enhancing operational effectiveness of plants, driving process transformations, energy conservation & cost savings, uncovering underlying issues at plant level and eliminating rejections
- Possess clear thinking from technology perspective with strong skills to identify functional needs and transform them into technology terms; expertise in identifying logical layers and mapping them to physical layers
- Outstanding team management skills; showcased capability to build transformational and highly engaged team
- Divergent outlook with proactive approach to business process optimisation, coupled with a zeal to drive collaborative efforts towards transforming the company's vision into reality

CORE COMPETENCIES

- **Research & Development**
- **Innovation**
- **Start-up Operations**
- **Patents**
- **Industrial Consultancy & Research**
- **Entrepreneurship**
- **Inter Disciplinary Research**
- **Research to Teaching Integration**
- **Academic Leadership**

SOFT SKILLS



EDUCATION

Pursuing	**P.G. Diploma in Intellectual Property Rights from IGNOU,,continuing**
2018	**PhD in CSE, from S.S.S.U.T.M.S., Bhopal**
2010	**M.Tech. (CSE) from GIET (BPUT),Gunupur**
1997	**Post Graduate Diploma (Instrumentation Technology) from V.S.I., Pune**
1991	**B.E. (M.I.E.) - ECE from Institution of Engineers (India)**

ACADEMIC EXPERIENCE

Mm/13 – mm/19 with Pragati Engineering College, Kakinada (A.P.) as Professor (Department of ECE &CSE, DUAL DEGREE PROGRAM)..

Mm/13 – mm/19 with GIET University, Gunupur, Odisha as Professor (Department of COMPUTER SCIENCE)

Mm/11 – mm/13 with GIET University, Gunupur, Odisha as Associate Professor (Dept. of Instrumentation Engineering)

Mm/06 – mm/07 with R.I.T. Berhampur as Senior Lecturer cum Head Of Department (AE&IE)

Mm/04 – mm/06 with P.K.A. College of Engineering, Baragarh as Lecturer (Dept. of AE&IE)

Key Result Areas

- Functioning as Convener for IIC, CII and NISP Coordinator
- Operating as Director EISC/ PEC and nominated faculty for APSCHE/QAC/EISC
- Working as Professor I/C, NITTT and Professor I/C EDC –PEC
- Assisting as SPOC for all Hackathon Program
- Participating, conducting organising Lecturer Class Seminar & Practical sessions
- Preparing study material, question bank for University Exam, Internal &Campus Drive Quiz Test
- Evaluating and monitoring eveluation system for Internal Exam, Autonomous & University Exam Answer Paper
- Developing Course Structure & Syllabus for UG/PG level time to time
- Setting up the Question Paper for Diploma / UG / PG Engineering and Science Colleges & University
- Offering guidance to the students for participating at program on external world
- Contributing as Vice-Chairman for CSI-Chapter and Technical Season Chair / Season Chair of International Conference

INDUSTRIAL EXPERIENCE

Mm/03 – mm/04 with Vedant Alumina Limited, Langigarh as Plant Commissioning Engineer

Mm/98 – mm/02 with W.O.S Limited, Kalahandi as Senior Engineer (Instrumentation)

Mm/94 – mm/07 with W.I.S.S.C. Limited, Kalahandi as Junior Engineer (Instrumentation)

Mm/92 – mm/94 with Warna Paper & Sugar Limited, Warna Nagar, Kolhapur as Trainee Engineer (Instrumentation)

Key Result Areas

- Led, trained and guided production team towards various procedures to increase final outcome of the organization
- Developed efficient and flexible start up and finish time for the production line to increase production time and profit
- Conducted meetings with team members for identifying way to reduce production cost, managing budgets, working with engineering and other department
- Engaged in research, designing, installation, operation and maintainance of equipment, system and process to meet requirments
- Supervised the technician, technology and other engineering activities
- Monitored the process control techniques to achieve desired targets
- Produced cost estimation for new designs and approved them for providing research and development on them
- Supervised and inspected the installatio along with modification and commissioning of system at industrial facilities
- Prepared schedules and supervised maintenance operations
- Conducted test and analyses of instrument for their performanceresponse
- Investiged operational problem affecting production and deal with systematic and methodical manner
- Ensured checking on all systems involved in present utilization for maximize production and safety

PROFESSIONAL AFFILIATIONS

- IIM V – Incubation Ecosystem (Foundation for Entrepreneurial Learning and Development)
- Network with 500+ Industry / Corporate Professionals, 20+ Event Organizers & 15+ Startup Holders

SHORT-TERM REFRESHER COURSES

- "Industrial Instrumentation" in 1995
- "Microprocessor and Computer Control" at V.S.I., Pune in 1996
- "Automation in Industries" under N.I.T.T.T.R, Chandigarh in 2007
- "FDP on Artificial Intelligence, Machine Learning & Data Analytics" at GIET, Gunupur in 2018
- "FDP on Exploring Deep Machine Learning for Image & Signal Processing with Mat Lab" at Dept. of Electronics Engineering GIET, Gunupur in 2018
- "TEQIP - Sponsor Machine Learning Technique" at NIT, Rourkela in 2018 under Electronics & LIT Academics (MeitY)
- "Advance Under Electronics & LIT Academics, (MeitY) Signal Processing & Optimization Technique Network Security" in 2019
- "Control and Automation" at NITTTER, Calcutta in 2019
- "Machine Learning and its Application on Cyber Security" at TEQIP-III, BPUT Odisha in 2020
- "EQIP-3/BPUT/GIET/ Machine Learning and its Application" in 2020
- "Cyber Security" at Anurag University, ISTE
- "Teaching Learning & Assesment Strategies" at IEEE, Hydrabad
- "Ardino based Low Cost Data Acquisition System using Scilab" at ECE, Pragati Engineering College
- "Python 3.4.3" at Pragati Engineering College (IT Dept.)
- "Mathematical Modelling in Multidisciplinary" at IEEE, Hydrabad, BAIT - Tn
- "Artificial Intelligence" at Brain O Vision Solution Private Ltd. in 2020
- "35th Indian Engineering Congress" at Institution of Engineeres in 2020
- "Cyber Security" at VSSUT, BURLA in 2020 (TEQIP- III Sponsored)
- "STTP on Machine Learning and its Application" at GIFET,ODISHA in 2020 (AQIS/AICTE Sponsored)
- "IPR and Patent Persecution" by MVSK Engineering College in 2021
- "FDP on IPR" conducted by Turnip Innovation
- "IA Training Program (Foundation Level)" by AICTE / MoE / IIC
- "Developing Leadership Skill for Enhancing Personal & Organisation" by VVCE

ONLINE COURSES

- "Design Thinking for Innovation" by Coursera
- "IPR" from E-Justice Law School in 2021
- "Startup Certification Program" by Business Jeeto in 2021
- "Startup India Learning Program"
- "Patent Analytic Course" by Trunip India Ltd. in 2021
- "Introduction to Python" in 2020
- "AI for Everyone" by Coursera in 2020
- "Intelligent Machining" by Coursera in 2020
- "Internet of Things Master Class" by PS-APSSDC in 2021

RESEARCH POTENTALITY

Citation----44
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i10—index---1

RESEARCH PAPER REVIEW 7

1) 2020 IEEE Conference (INOCON)

2) CMIM-MS /CURRENT MEDICAL IMAGING/7/1/21

3)Internal journal of robotic and control system -03 N0
4) Springer international conference proceeding research articles review –03no -21

TECHNICAL PROGRAM CHAIR / NATIONAL CONFERENCE
ON APPLIED SOFT COMPUTING(ICOAST) 2020
1) National Level Online Quiz on Basic Electroincs,July25 2020, organised at Dept.of ECE

PROGRAM CONDUCTED ON INNOVATION, START UP, ENTREPRENEURSHIP
1. Workshop on Prototype/Process Design and Development - Prototyping.

2. Session/ Workshop on Business Model Canvas (BMC)

3. Session on "How to plan for Start-up and legal & Ethical Steps"

4. Workshop on Intellectual Property Rights (IPRs) and IP management for start up

5. Celebration of World Intellectual Property Day

6. Celebration of National Technology Day

9) Future of STI – Science Technology and Innovation: Impacts on Education, Skills and work" on account of "National Technology Day"

10) Recent Technologies invented by Engineers and Scientists

11) Workshop on"Innovation and Entrepreneurship as Career Opportunity" by IA

12) Orientation session on National Innovation and Startup Policy (NISP

11) Session on "How to plan for Start-up and legal & Ethical Steps" 12 | Page

12) webinaron "Identifying Intellectual Property Component at the early stage of Innovation
13) Webinar "Design Thinking, Critical Thinking and Innovation Design
14) National Webinar on Research, Innovation and Ranking
15) Foundation of entrepreneurship
16) Funding Support for early stage of Entrepreneurship
17) Intellectual Property and Innovation Management 18) Institutional Assistance in Promoting Entrepreneurship 19) Role of Innovation and entrepreneurship in Professional education for a successful career
20) Essay writing competition on "The Promotion of Technical Education For Inculcating 21) Innovation, Startup& Entrepreneurship Culture among the Student Community
22) Entrepreneurship and Innovation as Career Opportunities
23) Problem solving ideation workshop – IoT as startup opportunity
24) Innovative Design Ideas – Pitching Event for Ideas Scouted & linkage with Innovation Ambassadors for mentorship support
25) National Intellectual Property Awareness Mission(NIPAM)

RESEARCH INTERESTS: - intelligent system designing

FUNDING PROJECT: -

1) Designing of intelligent controller on efficiency enhancing program of thermal power plant to STSC,ODISHA

2) Designing of intelligent system control for improvement over environmental pollutant of thermal power plant toNALCO

3) Designing and modeling of a portable system for detection of malaria parasite plasmodium sample in blood of malaria patient toDST

4) Advance numerical model for improving air quality simulation overair

5) pollution metrology to UGC under major project

6) Intelligent system designing for ubiquitous fall prediction toDST

7) Computer vision intervened yoga tanning with therapeutic evaluation to (Technology- development transferdivision)DST,

8) Designing & development of machine learning based unmanned operation and autonomous decision system for smart agriculture (Technology- development transferdivision) DS

9) RPS-2019, AICTE, Designing of intelligent system for thermal power plant
10 | Page

10) Technology based YOGA practice on enhancing immunity & prevention over respiratory disorder for COVID-19 Pandemic,DST

11) Ministry of Mines(Satyabhama Portal) File NO.SNTMOM/374/2020 Title-Intelligent System Designing for Optimising Fuel Utilisation through Minimising Losses on Enhancing Efficiency of Power Plant.

12) RPS-2020, AICTE,Desig and development of IoT based integrated cardiac monitoring system, A health care 4.0 application using fiber brag grating technology

BOOK CHAPTER PUBLICATION

1. Application of robotic in industry using advance mechanisms , springer 2019

2. Advance in smart grid technology, springer August 2020
3. Innovation in Bio-Inspired computing and application, spinger July20

BOOKPUBLICATION-01

(Under press) Title of book - Application of soft computing on industrial evolution World scientific publication,

ACHIEVEMENTS: - Best Teacher, Best Paper presentation.

MEMBERSHIP OF PROFESSIONAL BODIES:

ISOI, ISTE, IE, CSI, IETE,IEE

MENTOR FOR STUDENT ACTIVITIES

1) CANVAS/IUCEE/ Oxgen enriched air-
2) smart India hackathon21-22,22-23
3) start up competition for university and colleges of AP by Quality Assurance Cell of APSCHE –
4) MSME/start up project proposal
5) IDE Athan
6) Microprocessor challenge innovation and solution
7) Chatraviswakarma award
8) Ayush Startup Challenge/AICTE/ START UP INDIA –
9) Youkti innovation challenges
10) Kavach 23
11) MSME women hackathon-
12) Space hackathon 2023
13) boot camp (a program under start-up India)

MEMBERSHIP OF PROFESSIONAL BODIES:

ISOI, ISTE, IE, CSI, IETE ,IEE

PERSONAL DETAILS

Date of Birth: 01st September 1967
Languages Known: English and Hindi
Present Address: XXXX

Annexure – I

PUBLICATIONS: TOTAL 28

S.No.	Name of Journal	Paper Title	Authors	SCI/ Scopus/Web of Science/UGC	Issue & Year
1	IEEE-Explore	Advancing remote affective computing	2nd	IEEE	ACCEPTED

		through IoT and AI Technology			
2	Journal Of Information Systems Engineering And Management/Issn-2468-4376	a revolutionary journey on modern industrial automation with intelligent system design on fault prediction	3RD	**Scopus**	2025/10(275)
3	Journal Of Information Systems Engineering And Management/Issn-2468-4376	AI Driven Automated Performance Tuning In Clod Native Application Enhancing Scalability And Efficiency	1ST	**Scopus**	ACCEPTED
4	JOURNAL OF INFORMETIC ,ISSN-1875-5879	atomization on agricultural –model design for Smart and effective process	6TH	**Scopus**	2025/VOL 19.ISSUE 2
5	journal of system engineering and electronics /ISSN-1671-1793	quality improvement over speech signal with versatile algorithm based kalaman filter	2ND	SCOPUS	2024/VOLUME 34/ISSUE 12
6	JOURNAL OF TECHNOLOGY	DEEPLEARNING FOR AGRO TECH PREVENTATION AND PROTECTION OF PLANT DISEASE	3RD	SCOPUS	2024/VOL 14/ISSUE 12
7	JOURNAL OF ENGINEERING AND TECHNOLOGY MANAGEMENT	artificial intelligent based shoot blowing design on new mode of power engineering	2ND	SCOPUS	2024/ISSUE 12/VOL 72
8	ARTIFICIAL INTELLIGENT THEORY AND APPLICATION	Computer Vision And Convolutional Neural Network For Dense Crowd Count Detection	3RD	SPRINGER NATURAL	2023/ 844
9	SCIENCE TECHNOLOGY AND DEVELOPMENT ISSN- 0950-0707	Design And Implementationof Smart Agricalture With Efficient Utilization Of Solar Energy	2ND	UGC CARE	2023/VOL xii,/vol VII
10	THE INTERNATIONAL JOURNAL OF ANALYTICL AND EXPERIMENTAL MODEL ANALYSIC –ISSN 0886-9367	A Novel Wallace Tree Multiplier Architecture With Fast Parallel Prefix Adders	2ND	UGC CARE	2022/VOL VI /vol XIV

Conferences:- TOTAL 27

S.No.	Name of Conference	Paper Title	Authors	IEEE/Springer/ Scopus/other	Issue & Year
1	14TH ICRCET -20-25	intelligent system design on thermal power plant efficiency enhancing	**4TH**	**SCOPUS**	26-27 APRIL 2025,
2	INOACC -2025	advancing remote affective computing	**2nd**	**IEEE**	4-6 APRIL 2025

		through Iot and Ai technology			
3	ICMES -2025	analysis of wear behavior and optimization of parameter for minimal wear rate	**3RD**	**SCOPUS**	21-22 MARCH 2025
4	2ND I C RAECA-2025	automation on agricultural model design for smart and effective process	4TH	SCOPUS	24-25 January/2025
5	international conference on artificial intelligent of things for sustainable	design and development of internet of things health care 4.0 application	1ST	DST- SERB	20-21 January /2024
6	AITA 2023	computer vision an d convolutional nn for dense crowd count detection	3RD	SOFT COMPUTING RESEARCH SOCIETY	11-12 AUGUST 2023

Patents:- TOTA L5

S.No.	Patent Title	Authors	Patent Agency	Published date
1	Ai integrated supportive system for DCmotor smart operation/202421030035	5ND applicant	SELF	03/05/2024 PUBLISHED
2	intelligent system designing for optimization fuel utilization through enhancing efficiency of power plant /202041056516	3 inventor	NOVEL PATENT SERVICES	16/7/22 published and 23/9 24 request for examination
3	machine learning based plant dises identification /202041056517	3 inventor	NOVEL PATENT SERVICES	16/7/22 published and 23/9 24 request for examination

FDP/ Workshops Attended:- TOTAL 22

S.No.	FDP Title	Organized by	Date, Month & Year
1	**Advancement in signal processing using AI**	**Dept of ECE,PEC**	**21 TO 25 APRIL 2025**
2	**Aicte tranning and learning**	**Nit nagaland**	**17 t0 22 feb.2025**
3	**Optimized solution for ic design with handa on session on cmos desigh**	**Jntu (k)/e&ict acedemy**	**3rd t0 7th feb 2025**
4	**5 days live boot camp on idea to minimal vivable product**	**Turnip innovation and facility center**	**20 to 24 nov 2023**
5	**New ipr 2023,**	**In tech/csir-immt**	**June 12-17 /2023**
6	**Idea to patent**	**Turnip innovation and facility center**	**9 to 18 may 2023**

7	**Aicte evaluated design thinking**	**Turnip innovation and facility center**	**14 to 20 june 2023**
8	**Two week patent course**	**Turnip innovation and facility center**	**12 to 25 sept, 2023**
9	**2 week entrepreneurship course**	**Turnip innovation and facility center**	**27 dec 22 to 09 jan 2023**
10	**international fdp on synopsis dissertation,thesis drafting and publicaton proces**	**EUDOXIA RESEARCH UNIVERSITY eru-usa**	**6 to 14 dec 2022**
11	**CHAIR PROFESSOR LECTURE SERIES**	**IQAC,SKCET,COIMBATUR**	**21 to 25 nov/2022**