

Curriculum Vitae



SARADINDU MONDAL

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Marital Status: Married with one daughter & one son

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Professional synopsis

My professional journey spans **6 yrs** in industry and **20 yrs** in higher education segment. During my industry career I have been involved for 3yrs in control automation sector in circuit design, development, component procurement, costing ,bidding ,fabrication, assembling and testing of control desks and instrumentation panels for clients in steel and petrochemical sectors. I have served for 3 yrs as maintenance engineer in textile sector involved in maintenance of machines, switchgear, control panels and captive power units. During my teaching career I have been involved in- setting up laboratories (bidding, costing, procurement), curriculum development (member of WBUT syllabus committee-2014), USS- University Station supervisor,/external examiner, involved in NBA accreditation (5times),(as Advisor ,coordinator, member documentation committee), foundation & establishment of entrepreneurship cell, industry institute partnership cell, IEI-student chapter, IIC-MHRD ,mentorship for product development-IPR-copyrights, conducting labs ,teaching subjects in electrical engineering, HRM, Entrepreneurship ,conducting seminars, workshops, tech-fest. I am designated SPOC-2 of BCET of Smart India Hackathon, applicant / recipient of AICTE grants..

core competencies.

Institutional and organizational development

Student motivation, teambuilding, counseling, mentorship.

Market survey/market research and strategy building for the organization

Interests--- product innovation design development-IPR-commercialization, E-vehicles-E-mobility, road safety ,IGBC- green buildings, Solar2grid, solar cities ,smart cities, habitat design ,renewable energy ,Microgrids.

Research interest---reliability studies, harmonic analysis, condition monitoring, vibration signature analysis

Objective

1-To work for progressive organizations with vision., techno business incubators, startup accelerators

2-Willing to work for education, hospitality, healthcare, manufacturing/software segments.

3- To play the role of an active **manger HR/business development** for transformation and growth of organization.

4- To join non teaching / administrative / teaching posts to produce skilled energetic, innovative, professionals.

5 to setup ATAL incubation centres and ATALtinkering labs

Academic credentials

1975 -1985 :I.C.S.E --Saint Paul's School, Rourkela, Orissa.

1985 – 1987 :I.S. C E. from Ispat English Medium School, Rourkela, Orissa

1988 -1992 :**B. Tech. (Electrical)** (313 rank in Orissa JEE) from C.E.T, Bhubaneswar. (OUAT)

1992-1994 **PGDM (HRD)** (CAT QUALIFIED) Xavier Institute of Management, Bhubaneswar.

2004-2006 **M.TECH (ELECTRICAL)**, UNIVERSITY OF CALCUTTA.

Career path activities

2020-(june) completed NPTEL course on NBA ACCREDITATION”

2020---Copyright applied “softhandwash” (co author ,co owner) diary no 1518/2020-CO/L dated-27-01-2020.

Copyright applied “agro companion solar drone (co author, co-owner)diary no2533/2020-CO/L dated 10/02/2020

2020-- **IPR guidance from BCET EDC**("RIDER SAFETY SYSTEM" diary no-2532/2020-CO/L dated-10/02/2020
And "agro companion solar drone "diary no2533/2020-CO/L dated 10/02/2020)

2020--(6-7mar)- attended **MHRD-Innovation Ambassador Training** at IISER-KOLKATA. representing IIC-BCET.

2020 --(1-2feb)----- coordinator of college contingent attending **GES-2020** at IITKGP.

2019--designated **SPOC-2 BCET** of SIH.

2019 (JULY-DEC)---- completed **NPTEL course on ENERGY ECONOMICS POLICY**

2019 --(June)-- coordinator of **Industry Seminar** on application of A.I. in Engineering.

2019---(11-12,may)--attended two day workshop on virtual labs by IIT-Guwahati

2019- (2-4 feb)----- coordinator of college contingent attending **GES 2019** at IIT-KGP

2019--(jan)---attended **AICTE workshop** on student induction at SNU Kolkata

**2018 -- COPYRIGHT – granted 18-04-2018---REG NO--L-74604/2018 applied (12/09/2016) DIARY NO –
13951/2016-CO/L SMART ENERGY MANAGEMENT SYSTEM**

2018-OCT-Designated nodal coordinator of BCET nodal centre for virtual labs -IITKGP

2018 --(1-2feb)----- coordinator of college contingent attending **GES-2018** at IITKGP.

2018 --(5th-9th,March)----Attended (5days -**SOLAR PV Workshop** at NPTI-DGP) organised by USAID/NISE/MNRE

2017-(25-29,July)-- attended workshop on "entrepreneurship educators program" by NEN at DIATEM-DGP,

2017-March -- Organizing seminar on **MICROGRIDS**.at BCET-DGP-12.

2017(23march)---coordinator of college contingent attending **INNOVATORS MEET** at CMERI –DGP.

2017-----coordinator of BCET for first **Smart India Hackathon**

2016-(11-13 June) -- Attended 3 day workshop on **entrepreneurship educators course** organized at BCET.

2016-Feb -- Organized two day **National Seminar on "SOLAR TO GRID"** with academic and industry experts, at BCET-DGP .with **INSTITUTION OF ENGINEERS** local chapter Durgapur.

2015 -- Attended one day **Workshop on NMEICT** at NITDGP.

2014 -- Attended national seminar at SKFGI on **EMI/EMC**.

2014--foundation and establishment of **IEI student chapter** in EE deptt of BCET

2014 – **Involved in Product developmet** looking forward to IPR-Copyrights ,product commercialization.

2013 -- **Founded the industry institute partnership cell ,organized INDUSTRIAL SEMINAR with MNC's.**

2012—(27-28july)National seminar on industrial applications in solar power at SRIJANI organized by NIT-DGP.

2012 -- Attended one day **NATIONAL seminar on Solar Thermal Technologies**". NIT - Durgapur,

2011 -- Attended two day national workshop on "Prototype to Market at "IMI-DELHI. Organized by NEN.
To create an ecosystem in academies so that most lab products can be commercialized.

.2010-----procurement and setup of power system lab and drives lab.

2010 (jan) Attended 1st (AGCETI) at IIT-K. Annual Global Conf on Entrepreneurship & Tech Innovation.

2010 -- ORGANISED THE "TECH FEST" at BCET.

(2008 – 2010) -- **COORDINATOR OF NATIONAL ENTREPRENURSHIP WEEK** -3 times

2009 – (05-18,OCT) (MHRD-Workshop) on Entrepreneurship at --IIT-KGP. Lectures, role plays, games, modeling, group dynamics etc. to equip the learners to create an ecosystem of (TBI) technology business incubator on campuses later to be scaled up to STEP (Science Tech Parks).

2008 -- EEC – STVP Workshop (5 modules) at IIM-B. (An Entrepreneurship Educators course under the **STANFORD TECHNOLOGY VENTURES** Program to help learners to develop entrepreneurship course modules), to create campus ecosystems to create EDC, IEDC etc.

2008 -- RECEIVED FUND OF INR 8-LACS FROM – AICTE for BCET-EDC

2008-----procurement setup of basic electrical and machine labs

2007 –(23dec) Attended -“E-SUMMIT”by Intellisys at **IIM-Calcutta**.

2007 (OCTOBER)-- **Founded the entrepreneurship cell BCET**

2007---(13-15feb) -- E- Learning workshop at NIT-Durgapur to help learners – to create a teaching learning process that’s student centric new teaching tools methodologies for more value addition to students..

EXTRACURRICULAR (college level)

2006 -- MTECH PROJECT: -- **RELIABILITY OF SUBSTATIONS vis-a-vis WBSEB.**

2006 -- MTECH SEMINAR: -- **MAGNETIC LEVITATION**

1993 -- TRG &PROJECT: -- **ISO 9000 IMPLEMENTATION: at Usha Martin Industries, Jamshedpur.**

1992 -- BTECH PROJECT: -- **MICROPROCESSOR BASED SPEED CONTROL OF DC MOTOR.**

1991 -- BTECH SEMINAR: -- **Audio Visual recording techniques, best seminar 1992, CET, BBSR.**

Active participation in quiz, debates & other activities at BTECH LEVEL in CET Bhubaneswar.

1991 --1st rank in science quiz **OUAT Bhubaneswar.**

1992 - Semifinalist at **SUNTIMES QUIZ—Orissa State Level.**

TEACHING EXPERIENCE ----- 21 YRS

23-02-2021—onwards as asst prof-ee- at Dr.BCRoy engg college.

10.10.2006 – 23-02-2021(BCET-durgapur)

Joined as senior lecturer left as Assistant Prof (EE. Department)

Subjects taught: -

1) Basic Electrical Engg 2) Electromagnetic Field Theory 3) ENERGY AUDIT

4) Utilization of Electrical power 4) Organization Behavior 5) Human resource mgmt 6) Renewable Energy

7). Design of electrical machines 8) power plant engineering. 9) power plant instrumentation & control

Projects guided: -

2020 -- Solar Agricultural drone 2018 -- Solar Bicycle 2017-D BROOK Braille book 2016 -- Design of DC motor and studying the dynamics 2015 batch -- 1) condition monitoring of street lights 2) surge protector cum voltage stabilizer. 2014 batch -- 1) Domestic 220v ac power line lightning surge protector and filter. 2) Blood – glucose – saline level indicator cum monitor and alarm. 3) Anti-theft device in DOMESTIC ENERGY METERS.

2013 batch -- ENERGY AUDIT OF INSTITUTION 2012 batch -- Development of microcontroller based variable rate agricultural watering pump 2011 batch -- SUBSTATION RELIABILITY

2010 batch -- DESIGN OF INDUCTION MOTOR, DESIGN OF SINGLE PHASE TRANSFORMER,

01.02.2006 -- 10.10.2006 SAROJ MOHAN INSTITUTE OF TECHNOLOGY, (**TECHNO INDIA**) Hooghly

PROJECT GUIDANCE: - DESIGN OF PACKAGE FOR DESIGN OF SLIP RING INDUCTION MOTOR. IN VB.

SUBJECTS: - ELECTRICAL MACHINE DESIGN. DEVELOPED-ELECTRICAL MACHINE LAB

15.03.2000 -- 31.01.2006 NETAJI SUBHAS ENGG. COLLEGE, (**TECHNO INDIA**) Kolkata.

PROJECT GUIDANCE: - DESIGN OF PACKAGE FOR DESIGN OF SQUIRRELCAGE INDUCTION MOTOR

SUBJECTS TAUGHT: - BASIC ELECTRICAL ENGG, ELECTRICAL MACHINE DESIGN AND UTILISATION OF POWER

LABS CONDUCTED: - ELECTRICAL MACHINES LAB. BASIC ELECTRICAL LAB.

A visiting faculty at the MARINE ENGG. & RESEARCH INSTITUTE, Calcutta conducting classes' 2nd year students (Electronics & Electrical), also involved in erection / commissioning of SCADA system for advanced PLC based marine hydraulic controls at MERI. Design of various experiments for studying MOTOR & GENERATOR CHARACTERISTICS with Swedish make Terco Scan drive Module

INDUSTRIAL EXPERIENCE: - 01.04.1994—31.01.2000 -----(6YRS)

More than six years experience in Core Engg. Sector & TRAINING & DEVELOPMENT Activities.

Experience in planning, procurement, instrumentation writing, testing, quality control, ERECTION & COMMISSIONING OF CONTROL PANELS for blast furnace, HRM, CRM, Slag granulation plant, fertilizer plant, water treatment plant, TV production units of reputed clients like SAIL, L&T, OTTO INDIA, JCT, MESCO, Malavika Steels, Nicco etc.

Experience in design engineering Conceptual studies, feasibility report, system sizing, equipments selection, vendor drawing reviewing, preparation of loops schematics, P & I diagrams material specification & requisitions and ensuring precise vendor interface.

Experience in TEXTILE SECTOR in MCC, PCC, DCS, distribution system & switchgear transformer & SUBSTATION, GENSETS & controls panels development activities for lowering power consumptions through ENERGY AUDIT, lowering inventory, reducing failure of motors & switchgear through improved techniques.

Industrial Experience Details

Ashoka Synthetics Ltd., Sundargarh, Orissa.

Tenure: April' 1997 – Jan' 2000

Designation: Electrical Engineer

Job Description:

- * Training of personnel in better work techniques.
- * Operation & maintenance of power control centre in control room.
- * Maintenance of A/C, Humidification plant & systems.
- * Schedule check & maintenance of control systems of textile m/cs.
- * Rewinding of burnt motors (0.5-HP – 40-HP) & installation.
- * Oil changing & maintenance of transformers & substation.
- * Development work to improve performance & production.
- * Maintenance & operation of 500 kVA gensets & panels.
- * Energy audit & liaisoning with state electricity boards.

Achievements:

- * Reduction in motor failure through better rewinding & switchgear.
- * Reduction in store inventory through standardization.
- * Lowering of maximum demand & reduction of electricity bill.
- * Increase in production & quality through system modification.
- * Better humidification at lesser power consumption.
- * Energy audit & improvement of work practice.

R.K.Controls, DumDum, Calcutta.

Tenure: April ' 1994 - April ' 1997

Designation: Started as supervisor and left as electrical engineer.

Job Description:

- * Conducting trg. & dev. activities for company personnel.
- * Supervision of construction, wiring, testing of control panels.
- * Liaisoning with engineers of clients & end users - L&T, SAIL.
- * Modification of P&I diagrams, loops schematics etc.
- * Development of ladder network, power circuits, control circuits.
- * System sizing & redesign, vendor drawing review, equipment selection, equipment layout, general arrangement drawing.
- * Material requisition & vendor interface.

Achievements:

- * Total conceptualization & redesign of power & control circuits from single line diagrams of original design of CEERI - CHINA ,indigenization, instrumentation, testing & dispatch for various sections of MIDEAST INTEGRATED STEEL Ltd., INDIA.

* *Total modification & indigenization of circuits of CHUGAIRO - JAPAN, final instrumentation, testing & dispatch of control panels to JCT picture tube manufacturing units -India.*

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