

# CURRICULUM VITAE

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## Experience:

Designation	Organization	Project/Topic/Nature of Job	From	To
Guest Faculty	IGIT, SARANG	Teaching	Sept.'15	Till date
Assistant Professor	Bhubaneswar Institute of Industrial Technology Department of Metallurgical Engg.	Teaching	Oct.'12	Aug.'15
Research Associate	IIT Kharagpur	"Setting up a research and development centre For Damodar Valley Corporation at Kolkata (phase-I ) (DCD)" undertaken in the Department Of Mechanical Engineering of IIT Kharagpur	July.'11	July.'12
Research Associate	IIT Kharagpur	"Setting up a Research and development centre for Damodar Valley Corporation ".	Mar.'10	July.'11
Software Engineer	Coppanion (WWW.coppanion.com)	Software Engineer	May.'07	May.'09
Senior Research Fellow	IIT Kharagpur	Development of silicon carbide thin films for high temperature and high power devices (HPD).	Jan.'07	May.'07

Project Associate	IIT Kharagpur	Development of soil moisture sensor.	Mar.'05	Jan.'07
Research Associate	IIT Kharagpur	MOVPE growth and characterization of III-V compounds and alloys for fabrication of 808 nm diode laser.	Nov.'01	Mar.'04
Senior Engineer	SPACESCAPES	Design & Development	May.'99	Oct.'01
Research Scholar	IIT Kharagpur	Chlorination of indian complex sulphide ores and concentrates for the extraction of copper lead and zinc and silver.	Nov.'93	Mar.'99
Senior Research Fellow	IIT Kharagpur	Chlorination of indian complex sulphide ores and concentrates for the extraction of copper lead and zinc and silver.	Mar.'91	Oct.'93
Research Assistant	Indian School Of Mines, Dhanbad	Use of non-coking coal for production of composite pre-reduced pellets .	Aug.90	Mar.'91

#### **Educational qualifications:**

<b>Description</b>	<b>Board/University</b>	<b>Year</b>	<b>%Marks/CGPA</b>
M-Tech (Metallurgical Engineering)	IIT Kharagpur	1988	6.49
B-Tech (Honours) (Metallurgical Engineering.)	IIT Kharagpur	1986	6.2
Higher Secondary	W.B.C.H.E	1980	63.8
Madhyamik (Secondary)	W.B.B.S.E	1977	72.4

#### **Hands on experience in:**

1. Optical microscopy
2. Scanning Electron microscopy
3. XRD (Powder)
4. Scanning Potentiostat/Galvanostat
5. Hall effect measurement
6. C-V measurement
7. Four probe resistivity measurement
8. Atomic absorption spectro-photometry
9. Inductively coupled argon plasma spectro-photometry
10. Slow strain rate testing (for corrosion testing under stress)

#### **Instruments designed & fabricated:**

1. Computer controlled Potentiostat / Galvanostat (used in corrosion research)

2. Computer controlled thermal conductivity meter for cryogenic temperature (used in Cryogenic Engg.)
3. Four probe resistivity meter with micro voltmeter (used in Metallurgical Engg.)
4. Resistive Proximity sensor for under water bed sensing (used in Civil Engg.)
5. Deep level transient spectroscopy (Bread board level, used in characterization of semiconductors.)
6. Signal conditioner for soil moisture sensor (used in Agricultural Engg.)
7. High speed strain gauge / load cell amplifier with computer interface

**Instruments repaired:**

EDS X-ray microanalysis system of scanning electron microscope Cam scan series 2d (Link A 1000 super series AN 10/555).

**Instrument interfaced with computer:**

1. Compact diffractometer analyzer system PW 1840 (Philips)

**Computer skills:**

1. Programming Skill: Perl, Operating system: Linux
2. MS Word, MS Excel, MS Power Point

**Reference:**

I hereby declare that the particulars furnished above are true to the best of my knowledge and belief.

Yours faithfully

Utpal Roy

