

Barnali Chowdhury, Assistant Professor, Mechanical Engineering Tezpur University, Napaam, Tezpur -784028. Email : barnali@tezu.ernet.in

SUMMARY:

- Currently working as an Assistant Professor in the Department of Mechanical Engineering, School of Engineering, Tezpur University, Tezpur- 784028, Assam.
- Possesses 11+ years of work experience (5.5 years in teaching and 6 years in IT industry).
- Pursuing PhD. from Assam Engineering College, Gauhati University, Guwahati-781014.

AREAS OF INTEREST/RESEARCH:

Industrial Engineering – Six Sigma, System dynamics. Thermal Engineering, Operations Research.

PROFESSIONAL EXPERIENCE:

SI.	Name of the Institute	Designation	Period	Duration	Subjects Taught
No.					
1.	Tezpur University (Dept. of Mechanical Engg., School of Engineering)	Assistant Professor	02Feb2015 to till date	Current	Theory of Machines, Applied Thermodynamics II, Thermodynamics, Applied Thermodynamics I.
2.	NERIST (Dept. of Mechanical Engg.)	Assistant Professor	15 - 23 January 2015	09 days	
3.	Assam Don Bosco University (Dept. of Mechanical Engg.,School of Technology)	Assistant Professor	8 July 2014 to 13January 2015	06 months	Engg. Thermodynamics, Engg. Graphics, Machine Drawing, LAB: Engg. Mechanics
4.	Royal School of Engg. and Technology (Dept. of Mechanical Engg.)	Assistant Professor	July 2011 to June 2014	03 years	Basic Thermodynamics, Engineering Mechanics I, Applied Thermodynamics I, Applied Thermodynamics II, Fluid Mechanics I, Operations Research and Engineering Graphics II. LAB: Basic Mechanical Engg. Lab, Thermodynamics and Fluid Mechanics I.
5.	Assam Textile Institute, Guwahati.	Lecturer	August 1999 to August 2000	01 year	Engineering Drawing, Elements of Mechanical Engineering.

• Teaching Experience : 5.5 years

• Industry Experience- 5 years 9 months

SI.	Name of the	Designation	Period	Duration	Work Profile
No.	Organization				
1.	Nucleus Software Exports Limited, Noida, UP.	Senior Software Engineer	January 2001 to September 2006	5 years 9 months	**

** Work Profile:

- Role of a Project Manager with functions viz. Project management, senior management reporting and handling multiple projects. It also included ensuring productive and preventive maintenance.
- As the Project leader had the responsibilities to train the team, design the test strategy mapped with the test data, test plan and execution schedule. The responsibilities also included simulation testing with real time scenarios, ensuring effective regression, resolution meetings, day end status reporting, Project Analysis, managing and reporting defect statistics, preparation of Release Package and product roll outs with impact analysis of open issues.

Other remarkable achievements:

- > Performed On site testing of a Core banking project at Citibank, Singapore.
- Received the "Nucleite of the Month" Award for outstanding performances as a test lead on two terms.
- Many successful implementations of FinnOne, the flagship core banking product for stalwarts such as ICICI Bank (Mumbai), HDFC Bank (Mumbai), Arab National Bank, American Express, Citi Financials, State Bank Of Mauritius (Mauritius), United Finance Company (Riyadh), Tokyo Star Bank (Japan), General Motors (Italy), to name a few.

PUBLICATIONS AND CONFERENCES

SI No.	Year	Journal	Paper	Impact factor	Citation
1	2014	International Journal of Precision Technology, Inderscience publishers, UK DOI: 10.1504/IJPTECH.2014.060618 2014 Vol. 4 No. 1 2 69-80	Chowdhury B. Deb S. K. and Das PC "Computer Aided Measurement System Analysis of Attribute Data: A Case of Liner Manufacturing"	lactor	
2	2014	International Journal of Current Engineering and Technology, Inpressco, USA DOI: http://dx.doi.org/10.14741/ijcet/spl.2.2014.11 Special issue – 2, (2014) 54-61	Chowdhury B. Deb S. K. and Das PC "Managing And Analyzing Manufacturing Defects-A Case Of Refrigerator Liner Manufacturing"	4.550	01
3	2015	Journal of Material Science and Mechanical Engineering (JMSME) p-ISSN: 2393-9095; e-ISSN: 2393-9109 Vol 2, Issue 14, Oct- Dec 2015 32-34	S. Borah B. Chowdhury S. Gogoi and Z. Askary (2015). "A Theoretical Study of Design Parameters of an Archimedean Screw Turbine"		
4	2016	International Advanced Research Journal in Science, Engineering and Technology, pp. 176-179, March 2016. ISSN (Online) 2393- 8021 ISSN (Print) 2394-1588. DOI 10.17148/IARJSET.2016.3337	S. Biswas and B. Chowdhury, Industrial Applications and Practices of Six Sigma: A Literature Review	1.198	

• Journal:

• <u>Conference Proceedings:</u>

SI.	Name of Conference	Date	Name of paper	ISBN No and
No.				page No.
	3rd International Conference on Industrial Engineering (ICIE-2015) & 57th National Convention of Indian Institution of Industrial Engineering at Sardar Vallabhbhai National Institute of Technology, Surat, Gujarat.	November 26-28, 2015	S. Biswas and B.Chowdhury "Industrial Applications and Practices of Six Sigma : A Literature Review."	ISBN: 978-93- 84935-56-6.
2	National Conference On Recent Trends in Mechanical, Electrical, Electronics, Civil, Computer Science and Information Technology (MECIT-2015) held at Jawaharlal Nehru University, New Delhi.	November 21-22, 2015	S. Borah B. Chowdhury S. Gogoi and Z. Askary "A Theoretical Study of Design Parameters of an Archimedean Screw Turbine."	p-ISSN: 2393- 9095; e-ISSN: 2393- 9109
3	5th International & 26th All India Manufacturing Technology, Design and Research (AIMTDR), IIT, Guwahati	December 12- 14, 2014	Chowdhury B. and Deb S. K. "Comparative Analysis of Manufacturing System Using Cause – Effect Diagram and System Dynamics Model"	ISBN: 978-8- 19274-612-8, 620- 1to 5
ľ.	5th International & 26th All India Manufacturing Technology, Design and Research (AIMTDR), IIT, Guwahati	December 12- 14, 2014	Chowdhury B. Deb S. K. and Das PC "System Dynamics Model in the Analysis of Manufacturing Defects and Process Improvements."	ISBN: 978-8- 19274-612-8, 542 – 1 to 7
5	International Conference on Advances in Mechanical Sciences (ICAMS2014).	January 9-11 2014.	Chowdhury B. Deb S. K. and Das PC "Managing And Analyzing Manufacturing Defects–A Case Of Refrigerator Liner Manufacturing."	
6	4th International & 25th All India Manufacturing Technology, Design and Research Conference (AIMTDR).	December 14 - 16, 2012.	Chowdhury B. Deb S. K. and Das PC "Computer Aided Measurement System Analysis of Attribute Data: A Case of Liner Manufacturing"	

• Workshops Attended:

SI.	Seminar/	Date	Title	Location
No.	Workshop	2004		
1	Training	2004	Six Sigma White Belt	Nucleus Software
2		December 23-24,	National Conference on Statistics and its Practices	Exports Limited, NOIDA GU, Guwahati
2	National Conference	2011	(NCSAP)	OO, Ouwallau
3	Regional Conference	March 16, 2012	57th Annual Technical Session, Assam Science Society	GU, Guwahati
4	FDP	May 19, 2012	Effective Research Methodology	RGI, Guwahati
5	International	December 14- 16,	4th International & 25th All India Manufacturing	Jadavpur University,
	Conference	2012	Technology, Design and Research (AIMTDR)	Kolkata
6	International Workshop	February 21-22, 2013	Wind Disaster Problems-Challenges Ahead	RGI, Guwahati
7	Regional Seminar	April 4, 2013	Workshop on Pedagogy "Challenges of Engineering Education in the NE and Role of Institutions and Teachers"	AEC, Guwahati
8	National workshop	April 29-30, 2013	National workshop on 'Deployment and Use of NPTEL Courses'	RGI, Guwahati
9	National Conference	May 9-10, 2013	National Conference on Pure and Applied Mathematics (NCPAM)	RGI, Guwahati
10	Quality Improvement Program	May 20-24, 2013	'Role of Numerical Methods in Scientific Computing'	IIT, Guwahati
11	National Seminar	October 5, 2013	"High Performance Computing (HPC) in academia and beyond "organized by CDAC	AEC, Guwahati
12	International Conference	January 9-11, 2014	Ist International Conference on Advances in Mechanical Sciences 2014	Vardhaman College of Engg., Hyderabad.
13	National Workshop	May 20-30, 2014	Two- Week ISTE Main Workshop on "Fluid Mechanics"	IIT Kharagpur
14	Workshop	June 5-6, 2014	Enhancing Professionalism: Discover, Learn, Grow.	RGI, Guwahati

15	Professional Development Program	July 15-16, 2014	Transformation through reflection and critical Thinking	ADBU, Guwahati
16	Quality Improvement Program	December 9-13, 2014	Introduction to experimental, computational Mechanics	AEC. Guwahati
17	International Conference	December 12- 14, 2014	5th International & 26th All India Manufacturing Technology, Design and Research (AIMTDR)	IIT, Guwahati
18	Orientation Program	April 20-21, 2015	Induction cum Orientation Program in 'Professional qualities in Education'	IQAC, TU
19	Workshop cum training	March 26-29, 2015	Six Sigma Green Belt Certification Program	SOM, TU, Tezpur
20	National Workshop	June 2-12, 2015	<i>Two- Week ISTE Main Workshop on "Environmental Science "</i>	IIT Bombay
21	Short Term Course	20-24 July 2015	Advances in Mechanical Engineering and Industrial Applications	SOE, TU
22	Workshop cum Training	November 21, 2015	Patent Search and Analysis	TU IPR cell
23	Workshop	February 15-24, 2016	Research Methodology	Education Department, TU

ORGANIZATIONAL ACTIVITIES:

- > Associate Warden, Kopili Women's Hostel, TU.
- > Webmaster, ME Department.
- > Convenor, Departmental Grievance Redressel cell.
- > Exam Coordinator, ME Department, Spring 2016.
- > Member- Anti Ragging Cell, ME Department.
- > Member- Students' Appeal Committee, ME Department.
- Departmental Media Coordinator
- Students' Mentor.

PROJECTS GUIDED:

- <u>M.Tech</u>
 - > Application of Six Sigma methodology to reduce Breakdown hours in a thermal power generation unit.(Ongoing)

• <u>B.Tech</u>

- > Design and fabrication of an Archimedean Screw turbine.(Ongoing)
- > Fabrication of a shell and tube Heat exchanger and analysis of its performance
- > Construction of a portable wind turbine and study of its performance.

EDUCATIONAL QUALIFICATIONS:

- PhD. (Pursuing)
- > M.E. (Thermal Engineering, Topper)
- B.E. (Mechanical Engineering, Honors)

Assam Engineering College, Gauhati University (AEC, GU). AEC, GU. AEC, GU.

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