

RESUME

DHRUPAD SARMA

Age: 36 Years 7 Months (as on 1st July 2021),
Male, Unmarried.



- B. E. in Industrial & Production Engineering
- M. E. in Mechanical Engineering (Specialization IPE)
- PhD: Currently Pursuing in JEC under Dibrugarh University.

Contact Details:

- (+91) 9508341860
- thinkdpd@rediffmail.com

ACADEMIC PROFILE

EDUCATIONAL QUALIFICATION

Qualification	Stream/Specialization	Institution	Year of passing	Board/Univ ersity	%
PhD	Solar Refrigeration*	Jorhat Engineering College	Pursuing**	Dibrugarh University	--
M.E.	Mechanical (I.P.E.)	Jorhat Engineering College	2014	Dibrugarh University	78.45
B.E.	Industrial & Production Engineering	Assam Engineering College	2010	Gauhati University	68.73
Diploma	Automobile Engineering	Bongaigaon Polytechnic	2006	S.C.T.E.	75.54
H.S.	Science stream	Swadeshi Academy	2002	A.H.S.E.C.	48.2
H.S.L.C.	-----	Birjhora H.S. School	2000	S.E.B.A.	66.33

*PhD Topic: Design and Optimization of an Intermittent Hybrid Solar Adsorption Refrigeration system suitable for the climatic condition of Assam.

** PhD Registration Date: 12/12/2018 under Dibrugarh University, Study center Jorhat Engineering College.

M.E. PROJECT WORK

- An Experimental Investigation on the Effect of Number and Spacing (Air Gap) of Glazings on the Performance of a Flat Plate Collector (FPC).

B.E. PROJECT WORK

- Multi Criteria Decision Making using Analytic Hierarchy Process (B.E. 8th Semester project)

- Multi Criteria Decision Making under Multi-Expert System : A case study for family car selection, using weightage scaling method (B.E. 7th Semester project)

DIPLOMA PROJECT WORK

- The Detailed Study of Automotive Voltage – Current Regulating and Cutout System. (Diploma Final year project) .

PROFESSIONAL EXPERIENCE

TOTAL WORK EXPERIENCE: 7 Years 01 Months

- **10 months** of experience as an Assistant Professor (contractual) in the department of **Mechanical Engineering** at **Jorhat Engineering College**, Jorhat, Assam from 19th August 2020 to till date.
- **6 months** of experience as a part-time lecturer in the department of **Industrial & Production Engineering** at **Karimganj Polytechnic**, Karimganj, Assam from 1st July 2017 to 31st December 2017.
- **4 years and 5 months** of experience as a part-time lecturer in the department of **Mechanical Engineering** at **Jorhat Engineering College**, Jorhat, Assam from 1st August 2012 to 31st January 2017.
- **1 year and 4 months** of experience as **Production Engineer** at **Ellenbarrie Industrial Gases Ltd.**, Kolkata, from 1st July 2010 to 26th Nov 2011.

PUBLICATION DETAILS

PATENT PUBLICATION

Dhrupad Sarma, “**Bimetallic Thermal Diode**”, Indian Journal of patent, 23rd issue, 2014. Patent application number 823/KOL/2012. First Examination is completed in 2019. Final patent is yet to be granted.

JOURNAL PAPER PUBLICATIONS

- i. Dhrupad Sarma, Parimal Bakul Barua, Nabendu Dey, Sumitro Nath, Mrinmay Thakuria and Synthia Mallick, “Investigation and Taguchi Optimization of Microbial Fuel Cell Salt Bridge Dimensional Parameters”, *Journal of The Institution of Engineers (India): Series C (IEIC)*, **Springer**, Volume 100 (1), February 2019, pp. 103-112.
- ii. Imtiaz Ali Ahmed, Dhrupad Sarma and Parimal Bakul Barua, “Machining using Minimal Quantity Lubrication- A Review”, *International Journal of Engineering Trends and Technology (IJETT)*, Volume 46 (2), April 2017, pp. 90-91.
- iii. Dhrupad Sarma, Monotosh Das, Bipul Brahma, Deepak Pandwar, Sermirlong Rongphar and Mafidur Rahman, “Investigation and Parameter Optimization of a Hydraulic Ram Pump using Taguchi Method”, *Journal of The Institution of Engineers (India): Series C (IEIC)*, **Springer**, Volume 97 (4), Oct 2016, pp. 551-559.

- iv. Dharindom Sonowal, Thuleswar Nath and Dhruapad Sarma, “A Review on Optimization of Cutting Parameters on Turning”, *International Journal of Engineering Trends and Technology (IJETT)*, Volume 28 (2), Oct 2015, pp. 54-60.
- v. D. Sarma, R. Gogoi, B. Nath, S. Konwar and C.L. Meitei, “Design, Fabrication and the Experimental Performance Evaluation of Flat Plate Solar Water Heater specifically for Jorhat, Assam (26.75⁰N, 94.22⁰E)”, *International Journal of Engineering Trends and Technology (IJETT)*, Volume 12 (7), Jun 2014, pp. 341-352.
- vi. Prof. P. B. Barua, D. Sarma, J. K. Sharma, M. Rahman, A. Boruah and H.Gogoi, “Feasibility Study of Sustainable Sweat Evaporative Fridge in Jorhat(26.75⁰n,94.22⁰e),Assam”, *International Journal of Engineering Trends and Technology (IJETT)*, Volume 12 (8), Jun 2014, pp. 414-420.
- vii. Dhruapad Sarma, Parimal Bakul Barua and Diganta Hatibaruah, “Optimization of Glazing Cover Parameters of a Solar Flat Plate Collector (FPC)”, *International Journal of Engineering Trends and Technology (IJETT)*, Volume 14 (2), Aug 2014, pp. 74-80.

CONFERENCE PAPER PUBLICATIONS

- i. Dhruapad Sarma, Parimal Bakul Barua, Ashutosh Das, Nur Mehdee Rahman, Shafiul Alom Prodhani and Sazid Anwar, “Microbial Fuel Cell- A Review”, ICROME 2021 held at NIT Silchar, during 7th to 9th February, 2021.

Selected for publication by **Springer Nature** as a book chapter.
- ii. Dhruapad Sarma, Parimal Bakul Barua, Deva Kanta Rabha, Nidhi Verma, Soumyajyoti Purkayastha and Sudipta Das, “Flat Plate Solar Collectors-A Review”,EGTET 2020 held at School of Technology, Assam Don Bosco University, Guwahati during 6th to 7th March, 2020.

Published as a book chapter in “Emerging Technologies for smart cities-Select Proceedings of EGTET 2020”, Springer (Singapore), Volume 756, pp. 197, 12th June 2021.
- iii. Dharindom Sonowal, Dhruapad Sarma, Parimal Bakul Barua and Thuleswar Nath,“Taguchi Optimization of Cutting Parameters in Turning AISI 1020 MS with M2 HSS Tool”, ICAMT 2016 held at Dadi Institute of Engineering and Technology, Visakhapatnam during 27th to 28th December 2016.

Later published by IOP Conf. Series: Materials Science and Engineering 225 (2017) 012186 doi:10.1088/1757-899X/225/1/012186.
- iv. Dhruapad Sarma, Dr. Parimal Bakul Barua, Biju Gogoi, Khiren Kachari, Kailash Jyoti Saikia and Prakash Mili,“Feasibility Study of Sustainable Green Irrigation by Spiral Tube Water Wheel Pump in Assam”, CESDOC 2016 held at Assam Engineering College, Guwahati during 19th to 20th December 2016. Short Abstract published in the conference proceeding.
- v. D. Sarma, M. Bhuyan, S. K. Deb, R. Saikia and B. J. Kalita, “Computer Aided Multi-Criteria Decision Making Using Analytical Hierarchy Process”, NCETACS 2010 held at St. Anthony’s College, Shillong during 9th -10th April, 2010.

- vi. D. Sarma, M. Bhuyan, S. K. Deb, R. Saikia and B. J. Kalita, "Multi Criteria Decision Making under Multi-Expert System: A case study for family car selection, using weightage scaling method", RAMTM 2010 held at Jadavpur University during 19th-20th February, 2010. Abstract published in the conference proceeding.

WORKSHOP, PROFESSIONAL TRAINING AND SCIENCE & TECHNOLOGY COMPETITION PARTICIPATION DETAILS

WORKSHOP/TRAINING COURSES

- i. One day Workshop on 'Electrical Safety Acts, Regulations and its Implementation in Industries' held at Jorhat Engineering College, Jorhat on 23rd March, 2018.
- ii. Two days' Workshop on Signal Processing, Computer Vision and Applications' held at Jorhat Engineering College, Jorhat from 26th to 27th March, 2018.
- iii. One week Short Term Course on 'Foundations of Robotics, Automation and Finite Element Analysis' held at Jorhat Engineering College, Jorhat from 25th to 28th April, 2018.
- iv. TEQIP-iii Sponsored one week Short Term Course on 'Digital Manufacturing' held at Malnad College of Engineering, Hassan from 6th to 10th July, 2018.
- v. TEQIP-iii Sponsored Active learning course on 'Characterization of Materials for Renewable and Sustainable Energy' held at IIT Indore during 4th to 9th March 2019.
- vi. Workshop on 'Lifecycle Reliability of Engineering Systems' held at Assam Kaziranga University, Jorhat on 22nd and 23rd April, 2019.
- vii. Workshop on '*Intellectual Property Rights: Drafting, Interpretation of Patent specifications and Claims*' held at Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan during 16th -17th March 2012.

SCIENCE & TECHNOLOGY COMPETITION ATTENDED

- i. Participated in the Science & Technology Exhibition held at AEI Guwahati, organized by ASTEC during 3rd -7th February 2010, where got appreciation for my design of solar water heater cum thermal storage system.
- ii. Participated in Deep Purple (Technique) an underwater vehicle competition, organized by IIT Guwahati held during 5th to 7th September 2008.

CERTIFICATION COURSES ATTENDED

Name of the course	Institution	Duration
Comsol Multiphysics Intensive Online Training	Comsol	11 days
CAD with Pro-E	TRTC Jorhat centre	71 days
Advanced Auto-Cad	TRTC at JEC (TEQIP-III)	21 days
Solid Works (Educational 2019-20)	JEC (TEQIP-III)	3 days
CNC machining (Lathe, Milling, EDM, Wire cut)	CIPET Guwahati	26 days
Mechanical Desktop	CIPET Guwahati	20 days
Pro-E	TRTC Guwahati	35 days
Auto-Cad	TRTC Guwahati	27 days
Computer Hardware & Networking	Assam Science Society	4 month
Certificate in computing	IGNOU (Bongaigaon)	6 months

TRAINING COMPLETED

- i. “Designing & Fabrication of a 2 stroke Double cylinder Gasoline Engine based on readily available aggregates from 2/3 wheeler” at Department of Design, IIT Guwahati during 16th June-15th July 2008 (B.E. 4th Semester summer training).
- ii. Industrial training at Maintenance Department, IOCL (Assam Oil Div), Digboi, Assam during 22nd Jun to 13th July 2009 (B.E. 6th Semester summer training part 1)
- iii. Industrial training at BISCON amingaon plant, Guwahati during 15th July to 6th August 2009 (B.E. 6th Semester summer training part 2).

PERSONAL DETAILS

- Full Name : Dhrupad Sarma
- Father’s Name : Late Sri Bimal Sarma
- Mother’s Name : Smt Sabitri Devi
- Date of Birth : 1st December, 1984
- Sex : Male
- Marital Status : Single
- Nationality : Indian
- Religion : Hinduism

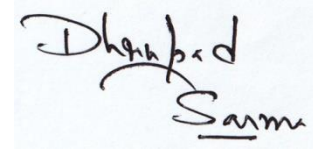
CONTACT INFORMATION

- **Permanent Address** : C/O- Sabitri Devi
Bakhrapara pt-1 (near L.I.C. div. office/Shiv Mandir)
Dist./P.O.-Bongaigaon
PIN: 783380 (ASSAM)
- **Current Address** : C/O – Diganta Kalita
Qtr. No: 50
Jorhat Engineering College
Garmur, Jorhat-785007 (ASSAM)
- **Contact No. / E mail** : 09508341860(M)
thinkdpd@rediffmail.com

DECLARATION

I do hereby declare that all the statements made in this RESUME are true to the best of my knowledge and belief.

Date: 16/07/2021
Place: Jorhat



(Dhrupad Sarma)
Signature of applicant