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Research interests Conceptual design synthesis, multiple-state mechanical devices, creativity, functional modelling, kinematics and robotics.

Education
Indian Institute of Science (IISc) Bengaluru, Karnataka
Ph. D. in Engineering August 2018 – Present
Supervisor: Prof. Amaresh Chakrabarti. *CGPA: 8.83.*

Indian Institute of Technology (ISM) Dhanbad Dhanbad, Jharkhand
M. Tech. in Mech. Engg. (spl. Machine Design) August 2016 – June 2018
Supervisor: Dr. Sanjoy K. Ghoshal. *OGPA: 9.89.*

Govt. College of Engg. and Textile Technology Berhampore, West Bengal
B. Tech. in Mechanical Engineering August 2012 – June 2016
DGPA: 9.00.

Honors and scholarships
Distinguished Paper Award (ICoRD 2023) 2023
Gold Medal (Indian Institute of Technology (ISM), Dhanbad) 2018
Best Paper Award (ICMMRE 2017) 2017
The Central Sector Scheme of Scholarship for College and University Students (MHRD, Department of Higher Education, Government of India) 2012-2016

Publications
Journals:
Majumder, A., & Chakrabarti, A. (2022). A Tool for Supporting Conceptual Design of Multiple State Mechanical Devices. *Defence Science Journal*, 72(2), 217-226.

Bhatt, A. N., **Majumder, A., & Chakrabarti, A. (2021).** Analyzing the modes of reasoning in design using the SAPPhIRE model of causality and the Extended Integrated Model of Designing. *Artificial Intelligence for Engineering Design, Analysis and Manufacturing* 35, 384–403.

Chattopadhyay, P., Ghoshal, S. K., **Majumder, A. (2020).** IMPLEMENTATION OF PIECEWISE SINE FUNCTIONS ON LIMBLESS ROBOT LOCOMOTION. *International Journal of Robotics and Automation*, 35(4).

Chattopadhyay, P., Ghoshal, S., **Majumder, A., Dikshit, H. (2018).** Locomotion Methods of Pipe Climbing robots: A Review. *Journal of Engineering Science and Technology Review*, 11(4).

Conference Proceedings:
Patra, A., Patel, M., Chattopadhyay, P., **Majumder, A., Ghoshal, S. K. (2020).** A Bio-inspired Climbing Robot: Dynamic Modelling and Prototype Development. *In Recent Advances in Mechanical Engineering (pp. 191-209). Springer, Singapore.*

Patel, M., Patra, A., Chattopadhyay, P., **Majumder, A., Ghoshal, S. K. (2020).** Evolution of a Modular Limbless Crawling and Climbing Robot. *Advanced Science, Engineering and Medicine* 12.11 (2020): 1371-1377.

Majumder, A., Patra, A., Patel, M., Chattopadhyay, P., Ghoshal, S. K. (2019). Locomotion Study of a Hyper-redundant Modular Robot Using Artificial Neural Networks. *In Proceedings of the Advances in Robotics 2019 (pp. 1-6).*

Chattopadhyay, P., **Majumder, A., Dikshit, H., Ghoshal, S. K., Maity, A. (2018, June).** A bio-inspired climbing robot: design, simulation, and experiments. *In IOP conference series: materials science and engineering (Vol. 377, No. 1, p. 012105). IOP Publishing.*

Chattopadhyay, P., Dikshit, H., **Majumder, A., Ghoshal, S., Maity, A. (2018, April).** Dynamic analysis of a bio-inspired climbing robot using ADAMS-Simulink co-simulation. *In AIP conference proceedings (Vol. 1952, No. 1, p. 020015). AIP Publishing LLC.*

Workshops Attended	PBL South Asia Training Workshop for Faculty and Advanced Students at the Indian Institute of Technology, Bombay on 19 – 30 Aug 2019.	
Volunteering Experiences	Local Organising Committee Member 9th International Conference on Research Into Design, IISc, Bangalore, India.	9 Jan 2023 – 11 Jan 2023
	Local Organising Committee Member 2nd International Conference on I4.0 and Advanced Manufacturing, IISc, Bangalore, India.	10 Jan 2022 – 11 Jan 2022
	Student Organising Committee Member 8th International Conference on Research into Design, IIT, Bombay, India.	7 Jan 2021 – 10 Jan 2021
	Volunteer/ Host Pre-Conference Workshop of 7th International Conference on PLMSS.	16 Dec 2019 – 17 Dec 2019
	Volunteer 1st International Conference on Industry 4.0 and Advanced Manufacturing, IISc, Bangalore, India.	28 Jun 2019 – 29 Jun 2019
	Mentor "IISC DBox" - The Design Thinking Workshop held at Kendriya Vidyalaya, IISc organized by CPDM, IISc, Bangalore.	8 May 2019 – 12 May 2019
Skills	Local Organising Committee Member 7th International Conference on Research Into Design, IISc, Bangalore, India.	9 Jan 2019 – 11 Jan 2019
	Software Proficient in: MSC ADAMS, AUTOCAD. Familiar with: MAPLE, MATLAB, Tecnomatix.	
	Programming LaTex, HTML, PHP, JavaScript, Python.	
	Languages Bengali, English, Hindi	
	Damodar Valley Corporation Mejia Thermal Power Station, West Bengal, India	13 Jul 2015 – 31 Jul 2015
Vocational Training		