

Anubhab Majumder

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Research interests Conceptual design synthesis, multiple-state mechanical devices, creativity, 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
Guide: 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 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)

Publications 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.

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).

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.*

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).

Skills

Software

Proficient in: MSC ADAMS, AUTOCAD.

Familiar with: MAPLE, MATLAB.

Languages

Bengali, English, Hindi

Vocational Training

Mejia Thermal Power Station, Damodar Valley Corporation. July 2015 – August 2015

Professional memberships

Quarterly Franklin Membership - London Journals Press. Sep 2018 – Present
Membership ID: LS37324