



SUMANTA LAHA

135, B.K STREET P.O - UTTARPARA DIST-
HOOGHLY, WEST BENGAL Pin- 712258

Mechanical Engineer. MS (Thesis submitted)

MOB: 9903102933

Mail: lahasum@gmail.com

Career Objective

Seeking a dynamic and challenging research opportunity in the field of engineering, in a growth oriented, forward moving, and innovative organization, being a part of organization as well as its development, working in any team and to reach at the zenith of success with full responsibility.

Awards and Honors

- Recipient of the prestigious **SITARE-GYTI 2020** award for the work titled “An Automated Cardiovascular Replicator for Online Assessment of Cardiac Assist Devices, Prosthetics, and Beyond” with a financial grant from BIRAC.
- Awarded the **third-best project award** in industry-academia conclave by West Bengal University of Technology 2017.
- Awarded **Best Innovative Project** in **Eastern India Engineering and Science Fair 2016** and awarded a **special prize in 2015** at BITM, Kolkata.
- Winner of Mahindra AQ** and recipient of **Mahindra content internship 2015**.
- Recipient of the **best paper award in an International conference 2014**, IRAJ Chennai

Publications and Conferences

- Laha, S**, Ghosh, I and Das, P.K. (2020), Development of a Cardiovascular Replicator as a Platform for Simulating Cardiac Malfunctions, Artificial Organs, Willy (Communicated).
- Bhattacharyya, S, Chakraborty, S and **Laha, S**. (2014), Numerical Investigation of Drag and Lift Forces On Turbulent Flow On an Airfoil Shaped Body at Different Angles of Attack, Journal of Aerospace Engineering & Technology (STMJournal).
- S. Bhattacharyya, S. Chandra, **S. Laha**, S. Saha, and D. Chatterjee, “Design and Fabrication of a Solar Power Unmanned Aerial Vehicle,” Int. J. Mech. Prod. Eng., vol. 2, no. 11, pp. 52–56, 2014.
- Laha, S**. Rakshit, A. Ghosh, I and Das, P.K. (2019), Mock circulation loop – A platform for testing assist devices, prosthetics and beyond, (INSHLT-2019), October 1-2, 2019, Hotel JW Marriott, New Delhi India
- Laha, S**. Ghosh, I and Das, P.K. (2019), Mimicking heart malfunctions through a Cardiovascular Replicator, 14th European Mechanical Circulatory Support Summit (EUMS-2019), December 11-14, 2019, Vienna, Austria
- Laha, S**. Ghosh, I and Das, P.K. (2019), Heat Transfer in Human Cardiovascular System and Thermoregulation- A Preliminary Model, 25th National, and 3rd International ISHMT-ASTFE Heat and Mass Transfer Conference. (IHMTC-2019), December 28- 31, 2019, IIT Roorkee, India.
- Laha, S**. Rakshit, A. Ghosh, I and Das, P.K. (2018), Conceptual Design of a Complete Mock Circulation Loop, 7th International and 45th National Conference on Fluid Mechanics and Fluid Power (FMFP-2018), December 10-12, 2018, IIT Bombay, Mumbai, India

Patent

- Das P K, Laha S, Rakshit A, Ghosh I, Ray PK. (2020), Electro-Mechanical Analogue for Systemic And Pulmonic Circulation, IPR (Filled: Application No: 202031036431)

Work Experience

- Working as Project Assistant in Indian Institute of Technology, Kharagpur since June 2018
- Working as Engineer (Trainee) in Flowserve Sanmar Limited (June 2017.- May 2018)

Academic Overview

- MS (by research), in Mechanical Engineering from Indian Institute of Technology, Kharagpur (Thesis submitted)
- B. TECH (**Mechanical Engineering**) from MCKV INSTITUTE OF ENGINEERING, HOWRAH. **DGPA 9.00** (MAKAUTWB (formerly known as WBUT))
- Class XII** from UTTARPARA AMARENDRA VIDYAPITH, UTTARPARA in 2013 with **81.60%** (West Bengal Council of Higher Secondary Education)
- Class X** from UTTARPARA AMARENDRA VIDYAPITH, UTTARPARA in 2011 with **80.50%** (West Bengal Board of Secondary Education)



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Personal Details

- Date of Birth – 23rd October 1994
- Father's Name – Mr. Prasanta Laha
- Nationality – Indian
- Marital Status- Single
- Language Known - English, Hindi, Bengali

Technical Skills

Programming Languages : C.

Tools / Applications : CATIA, ANSYS, SOLID WORKS, UNIGRAPHICS (NX), AUTOCAD, PHOTOSHOP. SAP, MATLAB, SIMULINK, STAR CCM+

Soft Skills

- Presentation Skills and Public speaking
- Leadership Quality

Projects

- Development of a Low-cost LVAD and its associated control system.
- Design and Development of an indigenous low-cost RT-PCR.
- Design and Experimental Analysis of a Semi Solar Power UAV
- Design and Fabrication of Prototype (1:3) Of Head Controlled Wheel Chair with Stair Climbing Mechanism
- Geo-Thermal Air Conditioning System

Professional Certifications and Internships

- Worked as a one-month intern in **INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR (IIT KGP)**
- Worked as a one-month intern in **INDIAN SPACE RESEARCH ORGANISATION (ISRO)**
- Received Industry training from **ALSTOM** India Pvt Ltd
- Worked as a one-month content intern in **MAHINDRA & MAHINDRA**
- Worked as an intern in **SOS Corp** (India US base startup)
- Trained and certified in CATIA and SOLID WORKS from MSME tool room Kolkata CTTC Kolkata, GOVT of INDIA
- Trained and certified in AUTOCAD from CMC
- Spoken English from The British Institutes

Members in Professional Bodies

- Indian Society of Heating, Refrigerating & Air Conditioning Engineers
- Institute of Engineers
- SAE India (2013-2014)

Extracurricular Activities / Hobbies

- Active in ROTARACT (Vice President in Rota year 2016-17)
- Playing Synthesizer
- Photography
- Playing Chess
- Editorial work in the magazine

References

- Prof. P.K Das (Professor Mechanical Engineering Department, IIT ,Kharagpur, Ph.- 9434035266
Email - pkd@mech.iitkgp.ac.in)
- Prof. Parasar Bandyopadhyay (Ex- Director , MCKV Institute of Engineering, Ph.- 9830478905
Email - parasar.bandyopadhyay@gmail.com)

I do hereby declare that the above given statements are true and correct to the best of my knowledge.

Place: Uttarpara, Hooghly.

Sumanta Laha
(SUMANTA LAHA)