

Joshit Mohanty

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21, Male

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Education

Class	Board	Marks
Bachelor of Technology (Mechanical Engineering) (2018)	Veer Surendra Sai University of Technology (Deemed University)	8.07/10
12 th (2014)	Khallikote Junior College (Council of Higher Secondary Education, Odisha)	87.17 %
10 th (2012)	D.A.V. Public School (Central Board of Secondary Education, New Delhi)	10/10

Internships

Internshala Student Partner (ISP 9.0) **March, 2018 – June, 2018**
VSSUT-ISP
(Veer Surendra Sai University of Technology)

Active Vibration analysis and control using **May, 2017 - Jun, 2017**
Macro Fiber Composites (MFCs) of inflatable space structures.
(Indian Institute of Technology, Roorkee)

Real time Vibration analysis and control of inflatable space antenna reflectors using Macro Fiber Composites (MFC) using fuzzy logic, PID and adaptive fuzzy control networks.

Content Writing/ Reporter **Aug, 2016 – Sep, 2016**
EVENTS HIGH
Internshala

Steel Authority of India Ltd. (SAIL) **May, 2016 - Jun, 2016**
The Indian Iron and Steel Company (IISCO)
Asansol, W.B., India

Basics of steel plant functioning. Steel production and furnace operations. Feed from coke oven plant and gas filtration. Steel Roll production and sinter plant including coke oven battery.

Academic Projects

Active Wireless Monitoring of Railway Tracks **Aug, 2017 – May, 2018**
(Veer Surendra Sai University of Technology, Sambalpur)

Use of PVDF sensor and Arduino boards equipped with wireless systems to transfer real time data to the forthcoming train through the route.

**Active Vibration analysis and control using
Macro Fiber Composites (MFCs) of inflatable space structures.**
(Indian Institute of Technology, Roorkee)

May, 2017 - Jun, 2017

Real time Vibration analysis and control of inflatable space antenna reflectors using Macro Fiber Composites (MFC) using fuzzy logic, PID and adaptive fuzzy control networks.

Drone LiDAR Land Monitoring System
(IISF, CSIR, Dept. of S&T, Ministry of Earth Sciences, Govt. of India)

Dec, 2016 - Jan, 2017

Use of LiDAR mapping technology for real time monitoring of agricultural land: topography, crop and soil health using AR for distant monitoring and a drone to maneuver over the entire land.

Static Charge Generation on Aircraft
(Think Nano, Dept. of Nano S&T, IISc)

Apr, 2015 - Aug, 2016

Locating optimum places where p-static charges develop and circuitry to channelize those charges to a storage unit. Helps in meeting secondary energy requirements on an aircraft.

Conferences Attended

National Symposium on Rotor Dynamics (NSRD-IIT Patna)
(Paper Accepted)

12th – 13th Dec, 2017

International Conference on
Mechanical, Aeronautical and Production Techniques (ICMAPT)

7th August, 2016

THINK NANO, Department of Nano Science & Technology
Indian Institute of Science [IEEE-IISc Symposium]

31st March - 1st April, 2016

Publications

1. J. Mohanty, M. K. Patro "Drone-LiDAR Agricultural Land Monitoring System" Abstract Book, Vol 2.0, **Government of India**, December 2016.
2. A. Behera, J. Mohanty "Fault Detection System using GSM Technology" Abstract Book, Vol 2.0, **Government of India**, December, 2016.
3. J. Mohanty, G. Misra, B. Meher "Energy Harvesting on Aircrafts - Static Charge- Energy Generation (Using Graphene)" Published in International Journal of Engineering Research in Electronics and Communication Engineering (IJERECE), Vol 3, Issue 8, August 2016. (Doi:01.1617/vol3iss8pid415)

Certifications

1. Certified Solid Works Associate (CSWA)- Certification for Mechanical Engineering.
Dassault Systemes

Achievements

1. Selected in **Top 11** by **Dassault Systems** for innovation & Designing.
2. Selected by **Confederation of Indian Industry & All India Council of Technical Education** among **Top 100 Innovators** of the country to represent at India Innovative Initiative, 2017 (**Govt. of India**).
3. **Best Hall Presenter Award** for "Drone LiDAR Agricultural Land Monitoring System" at India International Science Festival, 2016, Department of SnT, CSIR, **Government of India**.
4. **Runners Up Technical Award** for "Drone LiDAR Agricultural Land Monitoring System" at India International Science Festival, 2016, Department of SnT, CSIR, **Government of India**.
5. Mechanical Team Lead of University Sounding Rocket Team – Team Awarded at:
 - a) Asia' inter college rocketry competition organized by Space Development Nexus.
 - b) World Festival of Youth and Students (2017), **Russia**.
 - c) Space Expo by **Indian Space Research Organization (ISRO)** during Space week, 2017.
6. Selected for **THINK NANO** poster presentation on static charge storage on aircrafts by Department of Nano Science & Technology, **Indian Institute of Science (IISc-IEEE)**.
7. **University of The New South Wales – Credit in Science** – International Assessments for Indian Schools.
8. Selected for **YATS** (Young Astronomer Talent Search) by **TATA Steel**.
9. Selected for **Student Astronomy Discussion** on Galileo Scope at **ORSAC (Orissa Space Applications Centre), Bhubaneswar**.
10. National Science Talent Search Examination (**NSTSE**) (National Level – **A Credit**) [**Unified Council-India**].
11. **Certified Class A in Paryavaran Ratna Award, conducted by Indian Centre for Wildlife and Environmental Studies in South Asia Region.**

Skill Set

1. Programming Languages: C/C++.
2. Operating Systems: Windows 98/XP/7/Vista/8.1/10.
3. Software: MATLAB, Simulink, Solid Works, MS-Office.

Independent Coursework

1. An Introduction to Aerospace Engineering: Astronautics & Human Space Exploration (Prof. Hoffman, MIT 16.00X, EdX coursework).
2. Stability and control of Aircraft (Dr. A. K. Ghosh, IIT Kanpur – NPTEL online course).
3. Introduction to Airplane Performance (Dr. A. K. Ghosh, IIT Kanpur – NPTEL online course).

Other

1. District Level **Chess Player**- Ganjam Chess Association.
2. Interest in pen down articles, poems–
 - a. behatke.wordpress.com
 - b. behatke.quora.com
 - c. campusdiaries.com/joshit.mohanty
3. Interested in Music- Keyboard Player.
4. Basic Web Designing.

Scholarships

1. Medhabruti Scholarship by Government of Odisha, India. (2014-2018).