Sambit Mishra

Email: sambit.mishra.2003@outlook.com
LinkedIn: *linkedin.com/in/thesambitmishra*
Phone: (+91) 7846850462

IIT Bhubaneswar

Electronics and Communication Engineering
Fourth-Year Undergraduate

Education

Year	Degree/Examination	Institute	%/CGPA
2021-2025	Bachelor of Technology	Indian Institute of Technology Bhubaneswar	**9.09/10**
2021	Grade 12(CBSE)	B.J.E.M. School	**97.2%**
2019	Grade 10(CBSE)	B.J.E.M. School	**97.6%**

Internship Experience

ASIC Intern - CHI VIP Team (May 2024 - July 2024)
NVIDIA Corporation

- Verified the CHI Compliance of a critical Verification IP used by CPU, GPU and MSS Teams at NVIDIA.
- Tested interoperability between NV-CHI VIP and external verification IPs to verify CHI Compliance of NV-CHI VIP.
- Designed comprehensive test sequences and interfaces using SystemVerilog and UVM, boosting test efficiency and proficiency in cutting-edge verification technologies.

Projects

RIS-Assisted Noncoherent Wireless System: Error Analysis with Optimal Receiver and Multi-level ASK
Wireless Communication Lab, IIT Bhubaneswar (Sep 2024 - May 2025)

- Developed optimized ASK designs for low Symbol Error Rate in RIS-Assisted Systems with Non-Coherent Receiver
- Leveraged MATLAB to model, simulate, and validate designs, enhancing system performance in diverse environments
- Key Learnings: Rician Fading Channel, Reconfigurable Intelligent Surfaces, Non-Coherent Energy-based ASK Receiver

Fully-Analog Audio System with Active Noise Cancellation
Electronic System Design Lab, IIT Bhubaneswar (Aug 2024 - Oct 2024)

- Developed a noise-resilient audio system using a fully-analog implementation of active noise cancellation.
- Used Multisim for conducting simulations and KiCAD for PCB Design.
- Key Learnings: Audio System Design, Active Noise Cancellation Systems, Analog Electronics

Key Skills and Coursework

Technical Skills: MATLAB, KiCAD, Cadence Virtuoso, SystemVerilog, UVM, Verilog, C++

Key Coursework: Wireless and Mobile Communication, Digital VLSI Design, Analog VLSI Design, Advanced Communication Engineering, RF and Microwave Engineering, Control Systems, Digital Signal Processing

Soft Skills: Strong Leadership, Problem Solving and Analytical Skills, Communication and Adaptability skills

Scholastic Achievements

- Qualified National Talent Search Examination 2019.
- Qualified Regional Mathematical Olympiad - 2019, participated in Indian National Mathematical Olympiad - 2020.
- Qualified Junior Mathematical Olympiad - 2016 from Odisha Region.

Positions of Responsibility

General Secretary (May 2023 - May 2024)
Science and Technology Council, Students' Gymkhana, IIT Bhubaneswar

- Responsible for coordinating and managing five technical societies and two fests, and ensuring proper allocation of funds among them.
- Led IIT Bhubaneswar's Inter IIT Tech Meet 2023 Team and got overall 10th rank among 23 IITs.