



# ANINDYA MUKHERJEE

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[acreus.github.io/Anindya-Portfolio-website](https://acreus.github.io/Anindya-Portfolio-website)

Earnest learner, with a passion for developing innovative interdisciplinary solutions for the maritime industry's future

## SKILLS

### Softwares | Technical proficiency (Intermediate)

- Proteus 8.0, C, Python, AutoCAD, Rhino 3D, Arduino IDE, Ansys Speos, Static Structural, Fluent module, NAPA (Design + Hydrostatics), MS Office, YOLO(v9), ROS, HTML, Javascript(basics), CSS, MAXSURF

### Analytical Skills | Analytical proficiency (Intermediate)

- Interdisciplinary research, Analysis methodology development, Critical problem solving

### Conversational Skills | Conversational proficiency (Proficient)

- English written and oral presentation, Conversational level Japanese

## EXPERIENCE

- **NEMO-AUV | Student Researcher** Oct 2024 - Present
  - Part of a team responsible for concept design development of biomimetic AUV for coral reef restoration and monitoring project, as part of MoU with Batangas State University
  - Devised methodology and conducted market research for sensor array to be designed for conducting photogrammetry
  - Designed 3D model for camera and light housing and actively responsible for custom-training YOLO based model for coral-reef health monitoring and mapping
- **Eunoia Innovations Pvt. Ltd. | Project Intern** Jun'24-Jul'24
  - Interfaced water quality monitoring sensors for an IoT enabled ROV
  - Analyzed sensor data and integrated for future use and reference
  - Developed python application for remotely monitoring said data.
- **INMEX SMM 2023 (held at Mumbai) | Student Innovator** Oct'23
  - Nominated to represent university campus as student innovators at the International Summit.
  - Developed proof of concept for a River Sediment Explorer, ROV for SLAM based mapping of Indian riverbeds
  - Project featured a display model fitted with ultrasound-based object detection and mapping circuit and application along with supporting presentation demonstrating the full scale of the concept.
- **IAMUS 2024(held at Massachusetts Maritime Academy) | Student Author** Feb'24-Oct'24
  - Co-authored a paper titled, "Analysis and Validation of Fresnel-Lens based Solar Heat Accumulator for Auxiliary System of Passive Solar Distillation Device", which was selected for oral presentation.
  - Worked on numerical analysis conducted and designed a custom PCB. <https://github.com/Nidus11857/IAMUC-2024-PAPER>

- **Technical Content Writer | Content Review, Freelance writer** Feb '24 - Dec'24
  - Written informative content, compiling conclusions from market studies and performed EEDI/EEXI estimations based on open source data, for a remote data analytics based software product.
  - Worked as a freelance technical content writer for PerfoMax pte. Ltd. writing articles for marketing.
- **Samudramanthan 2024 (held at IIT-KGP)| Student Participant** Mar'24
  - Received 2nd position in “Boat Wars” competition for demonstrating and competing in a remotely operated boat race.
  - Received 2nd position in “Case Study development competition” for demonstrating Freshwater Production plant based on Passive Solar Desalination device for coastal economies.
- **Hooghly Cochin Shipyard| Student Intern** Dec'24-Jan'25
  - Worked on various aspects of 40T ASD BP Tugboat detailed production design.
  - Hands-on experience in reading/interpreting structural drawings, obtaining insights, and compiling OCL and ABL data for ship block fabrication.
  - Preparation of Technical Evaluation Report for the entirety of the accommodation package based on vendor offers received and conducted a comparative study.
  - Revised scope of work for appliances, electrical outfitting, structural outfitting etc.
  - Conducted tide level inspections periodically over a week and created graphical representation of data record

## ACCOLADES & PROJECTS

In my past experience I have observed that however comprehensive a CV might be, it never truly conveys the details of projects and extent and impact of accolades earned by an individual, for this reason I have created my own portfolio website for your kind perusal: [acreus.github.io/Anindya-Portfolio-website](https://acreus.github.io/Anindya-Portfolio-website)

## EDUCATION

- |   |             |
|---|-------------|
| <b>Indian Maritime University, Visakhapatnam  B.Tech (NAOE)</b>   | 2022 - 2026 |
| <ul style="list-style-type: none"> <li>• Cumulative GPA: 8.56/10 (till 5 th Semester)</li> <li>• Chief Editor for student-led online learning platform Learn Ship Design</li> <li>• Electronics Dept. Head for student-led research and development initiative-Build-NEO</li> </ul> |             |
| <b>Pathfinder Higher Secondary Public School   Kolkata</b>  | 2020 - 2022 |
| <ul style="list-style-type: none"> <li>• Aggregate percentage: 86.2%(WBHSCE)</li> </ul>   |             |
| <b>Vivekananda Mission School   Kolkata</b>   | 2006 - 2020 |
| <ul style="list-style-type: none"> <li>• Aggregate percentage: 98.8%(ICSE)</li> </ul>   |             |