

# Arunava Maiti

[arunava.mitblr2023@manipal.learner.edu](mailto:arunava.mitblr2023@manipal.learner.edu) | P: +91 8217707662 | [linkedin.com/in/arunava-maiti](https://linkedin.com/in/arunava-maiti)

## Education

**Manipal Institute of Technology, Bengaluru**

2023- 2027

Bachelor of Technology, Major in Electronics and communication

CGPA: 8.17/10

## Experience

**Summer research Intern, Indian Institute of Science**

May 2024 – July 2024

Graphene Thin Films and its applications, mentored by Prof. K.J. Vinoy, ECE dept

- Investigated different Graphene thin films production and extraction methods and analyzed them for the most optimized way for better quality and scalability.
- Studied the properties of graphene including thermal conductivity, mechanical properties and electron mobility.
- Analyzed the experimental data and examined the different applications of Graphene thin films such as its use in sensors, FET, coatings, supercapacitors.
- Read up on multiple research papers on this topic and drafted reports on them.

## Projects

**Autonomous Underwater Vehicle (AUV) Development,**

Project mentors: Dr.Ujjwal Verma , Dr. Adithya GSS

- Spearheading the design and development of an AUV, recruited a team to collaborate with and build the institution's first competitive underwater robot.
- Leading the electrical subsystem development, including sensor integration, power distribution, and PCB design, to ensure seamless communication and operation.
- Coordinated the selection of hardware components optimizing computational performance for autonomous navigation and task execution.
- Currently working on developing a robust electrical architecture to support underwater sensors, cameras, and actuators while maintaining energy efficiency and reliability.

## Relevant Coursework

Analog electronic circuits, Signals and systems, Digital system design, Electromagnetic Waves, Digital signal processing\*, Microwave Engineering\*, Analog Integrated Circuits\*, Motor Control Theory\*, VLSI design\*.

(\*) Ongoing courses

## Courses and Certifications

- |   |            |
|---|------------|
| • C for Everyone: Programming Fundamentals, Coursera                | March 2024 |
| • Programming for Everybody (Getting Started with Python), Coursera | March 2024 |

## Skills

Software: Pspice/LTspice, Vivado, AutoCAD , Aurdino IDE