



Indian Institute of Science

Department of Aerospace Engineering
Bangalore – 560012, INDIA

Dr. S N Omkar

Chief Research Scientist
Faculty Advisor at ARTPARK

04/08/2025

Bangalore

INTERNSHIP CERTIFICATE

This document certifies that **Mr. Prathamesh Duvvuri** has successfully completed a 8-month internship as a **Project Intern** under my guidance and supervision of Mr. Neeraj R, at the Computational Intelligence Lab (CINT lab) from **1st December 2024** to **1st August 2025**. The CINT lab is a part of the Department of Aerospace Engineering at the Indian Institute of Science, Bangalore.

Specifically, Prathamesh contributed in the following manner:

- Actively contributed onsite to a project based on an advanced UAV system for precision agriculture.
- Assisted in development and testing of obstacle avoidance algorithms for UAV systems.
- Worked with ROS and ArduPilot for simulation and supported preliminary hardware testing and integration.
- Contributed to the design and implementation of a novel Adapted Cat and Mouse Optimizer for solving the Capacitated Vehicle Routing Problem (CVRP).
- Served as the first author of the research paper accepted at the International Conference on Optimizations and Applications 2025, Kenitra, Morocco.

During the said period, his involvement and contribution has been exceptional. We wish him the best in all his future endeavors.

Regards,

Dr. S. N. Omkar