

**VISVESVARAYA TECHNOLOGICAL  
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**A MICRO PROJECT REPORT ON  
"Tricopter Selfie Drone"**

**Submitted By,**

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**DEPARTMENT OF MECHANICAL ENGINEERING**  
**CERTIFICATE**


This is to certify that the Micro-Project entitled "Tricopter Selfie Drone" has been  
Successfully Completed

By

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The bonafide students of Department Mechanical Engineering, Alva's Institute of Engineering and Technology, affiliated to VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI, during the academic year 2020-2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.

  
Mr. Kiran C H  
Project Guide

  
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## ABSTRACT

We have entered a digital age where taking better selfies means a lot to individuals. But taking selfies is either limited to length of ones arm or an extended selfie stick. Well we unlock this limitation with our innovative selfie drone. The drone consists of a wireless camera that allows user to click his/her selfie from a whole wide variety of angles including from top from far away, far to closeup zooming videos, family selfies, group selfies, group videos and a lot more. So to make this system we start with a drone frame. The frame is a tri sided one so that we can attach 3 arms to the frame. Each arm is fitted with a BLDC high torque motor and a propeller. These motors are now connected to the controller through esc's. We now use a controller to control the motor with commands received through an integrated receiver antenna. The controller receives commands and operates the rotors to achieve the required flight. We here attach a camera that can be operated wirelessly through android phone. The camera footage can be monitored by user and user can also click photos as well as videos through the drone camera using his/her android phone. Thus the project allows for a fully automated remote controlled selfie drone tricopter.