Genebird: Design & Development of Micro Swarm Drones

Project Supervisor:Dr. M. KamranProject Start Month : July 2020Project Co-Supervisor:M. Fahad IjazProject Completion Month: June 2021

		Jul-20 Aug-2		Sep-20	Oct-20			Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21
TASK	PROGRESS	Week 1 Week 2 Week 3	Week 1 Week 2 Week 3	Week 1 Week 2 Week 3 Week 4	Week 1 Week 2 Week 3	Week 1 Week 2 Week 3 Week 4	Week 1 Week 2 Week 3	Week 1 Week 2 Week 3 Week 4	Week 2 Week 3 Week 4 Week 4	Week 1 Week 2 Week 3	Week 1 Week 2 Week 3	Week 1 Week 2 Week 3 Week 4	Week 1 Week 3 Week 3
Development of TIVA and Atmega based drone													
Design of Flight Controller on TIVA Architecture	100%												
Design of Flight Controller on Atmega Architecture	100%												
Integrating Software and Hardware	100%												
Implementing PID Algorithm for on board stability	100%												
Testing Flight and Improving code	100%												
Development of ESP8266 based micro drone													
Design of PCB for micro drone	100%												
Supervisor Selection	100%												
Feasibility Research	100%												
Design of Flight Controller on ESP8266 Architecture	100%												
Implementation of on board OTA support	75%												
Integrating Software and Hardware	40%												
Title Defence Presentation	50%												
Testing Flight and Improving code for stability	0%												
Development of Swarm of ESP32 based micro drones													
Design of PCB for ESP32 Cam 4 drones	0%												
Design of Flight Controller on ESP32	0%												
Implementation of Swarm Algorithm on drones	0%												
Integrating Software and Hardware	0%												
Testing Flight of Swarm drones	0%												
Final Presentation and Project Evaluation	0%												
Report Submission	0%												