



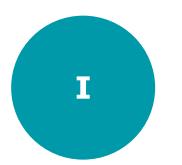


BELL Vertical Robotics Competition BELL VRC

- Integration of Autonomous Ground and Flight Operation
- Drone Piloting and Driver Control of Multiple Ground Robots
- Team Logistics and Critical Thinking for Search & Rescue Mission
- Team Presentations







Phase 1 April 10th

5 weeks Build the Drone

Phase 2 September 25th

Game Reveal, receive game components





Competitions Nov 5, 12, 13

Each team competes at 1 event Top teams from each event plays in the Championship on Dec 4th

2021 Season Calendar

Atypical 2021 Season





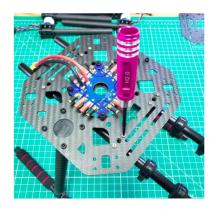


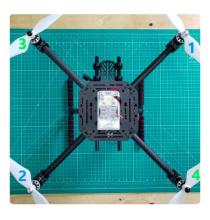
BELL VRC

Assemble, Program, Calibrate Phase 1













Phase 1

PRIMARY GOAL

Build and Fly the Basic VRC Drone



SECONDARY GOAL

- Build and ground test the Peripheral Control Computer (PCC)
- Activate Servo Actuators and LEDs using the PCC

"OVERACHIEVER" GOAL

- Mount the Vehicle Management Computer (VMC) to the airframe
- Connect the VMC to the Flight Control Computer and perform Ground Testing

3D PRINTING PROJECT

- Teams to Design, Build and Test Propeller Guards and LED Halo
- Senior Design Project Documentation and Presentation of the design process & solution

https://twitter.com/BellFlight/status/1400838662305288192





BELL Vertical Robotics Competition Phase 2

September 25, 2021 Reveal

THANK YOU

