

# "Go-Black": UGM Unmanned Aircraft was 3rd Champion of IIARC 2009

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The Indonesian Indoor Aerial Robot Contest 2009 (IIARC) has just finished. UGM Go-Black team was in third place in the championship. This time, Big Butterfly Team from Maranatha University and Underground Team from Institut Teknologi Bandung (ITB) came first and second winners.

"If there is no crash that has caused the wing to break, perhaps the result will be different," recalled Prima Ardiyanto, at Fortakgama Room UGM, Friday (16/10). He and three other friends from the Department of Electronics and Instrumentation, Faculty of Maths and Natural Sciences (Lambang Wicaksono, Pidar Febriaji, and Fredy Darmawan), however, were quite grateful.

The flying robot contest held at ITB from 11-12 October 2009 was followed by 14 Indonesian university teams. During the race, almost the entire teams showed their best performance, but not all participants could complete the mission well. "The planes that fly could not return to the take-off area," Pidar Febriaji explained.

Pidar added, besides presentation about the design, uniqueness, and other strengths, the contest participants were required to perform in the validation session testing aircraft endurance by running motor optimally. After that, aircrafts are required to conduct surveillance. Here, air monitoring of a specific area was done by placing a number of alphabetical characters.

"These characters should be able to be recorded through video images that are transmitted on-line from the aircraft. The more things that can be monitored, of course, the higher the score. Also, the weight of the aircraft should not exceed 150 grams." explained Pidar.

Go-Black team felt lucky because their aircraft prototype was made of stereofilm. Therefore, after several damages, the motor could be replaced immediately. "There were four participants who passed the final, Big Butterfly, Underground, Fighter 2 (STT Adisucipto), and Go-Black.

In aviation, unmanned aircraft is actually used for a variety of data retrievals. Indonesia has yet to have such type of aircraft, because they are very expensive. Therefore, the four members of the Go-Black team expected that their prototype aircraft would come in real shape in the future. "This plane can be developed in the future as UHV surveillance aircraft that can also serve as surveillance for road traffic, for gardens or large plantations, or others. It can also be used for military purposes,"

said Pidar.

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