

UAV DEVELOPMENT AND APPLICATION IN AN AERIAL SURVEY OF KMUTT'S RATCHABURI CAMPUS

Annop RUANGWISET^{a}, Tewet POTIRANGSIYAGON^a,
Tawan TOTHON^b and Shin-Ichiro HIGASHINO^c*

^a *Department of Mechanical Engineering, King Mongkut's University of Technology Thonburi
126 Pracha Uthit Road, Thung Khru, Bangkok 10140, Thailand
Tel: +66-2-470-9123; Fax: +66-2-470-9111; E-mail: annop.rua@kmutt.ac.th, sai-toom@hotmail.com*

^b *Darunsikkhalai School, King Mongkut's University of Technology Thonburi
126 Pracha Uthit Road, Thung Khru, Bangkok 10140, Thailand
Tel: +66-2-470-8315; Fax: +66-2-470-8319; E-mail: tawan.tothon@hotmail.com*

^c *Department of Aeronautics and Astronautics, Kyushu University
744 Motoooka, Nishi-ku, Fukuoka 819-0395, Japan
Tel: +81-92-802-3000; Fax: +81-92-802-3001; E-mail: tonton@aero.kyushu-u.ac.jp*

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Abstract: With the cooperation of Flight Dynamics Laboratory, Kyushu University, Japan, the UAV (Unmanned Aerial Vehicle) system was developed at Department of Mechanical Engineering, KMUTT, Thailand. The UAV platform in this project is an airplane with 2 m in wing span. The platform is designed to be flexible to install any equipment for surveying. The flight tests have shown the ability of the autopilot to fly the UAV accurately to the desired waypoints. This paper shows the result of using this UAV system in the surveying of the new campus area of KMUTT at Ratchaburi province. And the map is generated from the aerial photographs.