

SpaceMaster Diploma Thesis Review
- supervisor -

Name of student: Eswarmurthi Gopalakrishnan

Thesis topic: QUADCOPTER FLIGHT MECHANICS MODEL AND CONTROL ALGORITHMS

CTU Supervisor: Doc. Ing. Martin Hromčík, Ph.D., DCE FEE CVUT in Prague

Eswar is a Round 9 SpaceMaster student at CVUT. His student's project was assigned in autumn 2014 within a then-starting joint students' activity with the VZLU research institute to which I have been invited. Eswar did not perform satisfactorily and his thesis submitted in Spring 2016 was rejected by the State Examination Committee with a recommendation to extend the scope and re-write the manuscript.

I must confess that Eswar since that time has worked intensively on his diploma project and has brought it to a state I can acknowledge. He kept coming regularly for consultations and was showing progress. Technically, I appreciate that realistic models of actuators are now included in the design and validation simulation case studies in this revised version of the thesis, the linear analysis is executed correctly, and the PID and LQ control laws are designed correctly and show satisfactory performance. On the other hand, since the pace of progress of Eswar was not as fast as would be appropriate for an excellent student and excellent thesis, there was not space to explore any further issues that would be interesting and important (trajectory planning issues, dynamics of sensors and their compensations, ..).

Based on the above arguments, my suggestion is

grade C

in accordance to ECTS.

2017/09/06

Date

Signature