

Brushless Motor Controller

Embedded Systems Coursework: March 2017

Martin Opatovsky, David Salmon, Meng Kiang Seah
Electrical & Electronic Engineering Department
Imperial College London, London SW7 2AZ
Email: {mo1013, ds2713, mks211} @ ic.ac.uk

Abstract—

I. INTRODUCTION

II. MOTOR CONTROL ALGORITHM

Description of control algorithm.

III. SYSTEM TASK ANALYSIS

Analysis of all the tasks that are performed by the system, including minimum initiation intervals, deadlines, and maximum execution times.

IV. INTER-TASK DEPENDENCIES

Analysis of inter-task dependencies - no possibility of deadlock.

V. SCHEDULING SYSTEM

Analysis of scheduling system, showing deadlines are met.

VI. CPU UTILISATION

Quantification of maximum and average CPU utilisation, and show what is available for background tasks.