

**CARLETON UNIVERSITY**  
**Department of Mechanical and Aerospace Engineering**  
**PH.D. THESIS EXAMINATION**

**CANDIDATE:**            *Ali Mohamed Ali*

**DATE:**                    *Monday November 02, 2026, 10:00 3324 Mackenzie Building*

**THESIS TITLE:**        *Adaptive, Robust, and Learning-Based Control of Quadrotor UAVs under Partial-State Feedback*

**EXAMINATION BOARD:**

|                                                      |                                                                        |                    |
|------------------------------------------------------|------------------------------------------------------------------------|--------------------|
| <b>External Examiner</b>                             | Mahdis Bisheban, Mechanical & Manufacturing -<br>University of Calgary | (Video Conference) |
| <b>Internal Examiner</b>                             | Chao Shen, Systems & Computer Engineering                              | (In Person)        |
| <b>Member of Joint Institute</b>                     | Mohammad Pirani, Mechanical Engineering -<br>University of Ottawa      | (In Person)        |
| <b>Member of Department</b>                          | Jie Liu, Mechanical & Aerospace Engineering                            | (In Person)        |
| <b>Thesis Supervisor</b>                             | Hashim Mohamed, Mechanical & Aerospace<br>Engineering                  | (In Person)        |
| <b>Chair/Director of Department<br/>or Designate</b> | Edgar Matida                                                           | (Ex-officio)       |
| <b>Dean of Faculty</b>                               | Ron Miller                                                             | (Ex-officio)       |
| <b>Vice-Provost, Graduate<br/>Studies</b>            | Nadeem Siddiqi                                                         | (Ex-officio)       |