

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

CANDIDATE: *Iain Martin*

DATE: *Monday March 07, 2022, 9:00 Video Conference*

THESIS TITLE: *Real-Time Operator-in-the-Loop Anti-Sway Control for Shipboard Cranes*

EXAMINATION BOARD:

External Examiner	Houxiang Zhang, Norwegian University of Science and Technology	(Video Conference)
Internal Examiner	Ali Arya, Faculty Graduate & Postdoctoral Affairs,	(Video Conference)
Member of Department	M. John Hayes, Mechanical & Aerospace Engineering	(Video Conference)
Member of Department	Robin Chhabra, Mechanical & Aerospace Engineering	(Video Conference)
Member of Joint Institute	Roland Bouffanais, Mechanical Engineering - University of Ottawa	(Video Conference)
Thesis Supervisor	Rishad Irani, Mechanical & Aerospace Engineering	(Video Conference)
Chair/Director of Department or Designate	Ronald Miller	(Ex-officio)
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Patrice Smith
Dean, Faculty of Graduate and Postdoctoral Affairs