

CARLETON UNIVERSITY

Department of Mechanical and Aerospace Engineering

MASTER'S THESIS EXAMINATION

CANDIDATE: *Hassan Mahmoud*
B. of Mechanical Engineering, Carleton University, 2020

DATE: *Thursday April 20, 2023, 13:00 Video Conference*

THESIS TITLE: *Industrial Scalable Rolling Element Bearing Diagnostic and Prognostic Modelling using Particle Filter Methodologies and Inline Wear Debris Sensors*

EXAMINATION BOARD:

Member of Joint Institute	Dan-sorin Necsulescu, Mechanical Engineering - University of Ottawa	(Video Conference)
Member of Department	Steve Ulrich, Mechanical & Aerospace Engineering	(Video Conference)
Thesis Supervisor	Jie Liu, Mechanical & Aerospace Engineering	(Video Conference)
Chair of Defence	Rong Liu, Mechanical & Aerospace Engineering	(Video Conference)
Chair/Director of Department or Designate	Ron Miller	(Ex-officio)
Dean of Faculty	Larry Kostiuk	(Ex-officio)
Dean, Faculty of Graduate and Postdoctoral Affairs	Patrice Smith	(Ex-officio)