

CARLETON UNIVERSITY
Department of Mechanical and Aerospace Engineering
PhD Comprehensive Exam and Thesis Proposal Defense

CANDIDATE: Hamdan Alatresh Bitlmal

DATE: Thursday, October 12, 2023, 1:00 p.m. Video Conference

THESIS TITLE: **Guidance Navigation and Control for a Mobile Robot based on Vision System and Adaptive Particle filter**

EXAMINATION BOARD:

Member of Department	S. Ulrich, Dept. of Mechanical & Aerospace Engineering
Member of Joint Institute	D. Necsulescu, Dept of Mechanical Engineering – University of Ottawa
Chair of Defence	M. Ahmadi, Dept. of Mechanical & Aerospace Engineering
Thesis Supervisor	J. Sasiadek, Dept. of Mechanical & Aerospace Engineering
Chair of Department	R. Miller, Chair, Dept. of Mechanical & Aerospace Engineering (<i>Ex-officio</i>)
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Jason Etele Associate Chair, Graduate
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