

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

**CANDIDATE:**            *Alexander Tettenborn*  
                                 *Master of Applied Science, Univ of Waterloo, 2015*  
                                 *Bachelor of Science, University of Western Ontario, 2013*

**DATE:**                    *Friday December 02, 2022, 14:00 4356 Mackenzie Building*

**THESIS TITLE:**        *AI Methods of Autonomous Geological Target Selection in the Hunt for Signs of Extraterrestrial Life*

**EXAMINATION BOARD:**

<b>External Examiner</b>	Raymond Francis, California Institute of Technology	(Video Conference)
<b>Internal Examiner</b>	Richard Ernst, Department of Earth Science	(In Person)
<b>Member of Department</b>	Hashim Mohamed, Mechanical & Aerospace Engineering	(In Person)
<b>Member of Department</b>	Jerzy Sasiadek, Mechanical & Aerospace Engineering	(In Person)
<b>Member of Joint Institute</b>	Dan Neculescu, Mechanical Engineering - University of Ottawa	(In Person)
<b>Thesis Supervisor</b>	Anthony Ellery, Mechanical & Aerospace Engineering	(In Person)
<b>Chair/Director of Department or Designate</b>	Ronald Miller	(Ex-officio)
<b>Dean of Faculty</b>	Larry Kostiuk	(Ex-officio)
<b>Dean, Faculty of Graduate and Postdoctoral Affairs</b>	Patrice Smith	(Ex-officio)

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**Patrice Smith**

**Dean, Faculty of Graduate and Postdoctoral Affairs**