

# Patrick SHOREY

## CONTACT

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## SELECTED WORK EXPERIENCE

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| SUMMER 2019 | <b>Engineering Support Staff with <a href="#">VARD MARINE</a>, Ottawa</b><br>Prepared ship system drawings for client review within a quality management system. Drafting of reports and preparation of sketches for client review. Validation of noise-propagation analysis tool for early stage design. Development of internal resources related to alternative fuels, harmonics analysis and electrical distribution systems. Use of AutoCAD   |
| SUMMER 2018 | <b>Student Researcher with <a href="#">RIVALLAB</a>, Queen's University, Kingston</b><br><i>Industrial partnership with <a href="#">MetalCraft Marine Inc.</a></i><br>Performed a feasibility study of a towing tank for use in ship design. Responsible for the design and execution of a baseline test, as well as design and assembly of the testing apparatus. Acted as liaison between Dr. Rival's lab and MetalCraft. Prepared the final report. Use of MATLAB and SolidWorks  |
| SUMMER 2017 | <b>Student Researcher with <a href="#">RIVALLAB</a>, Queen's University, Kingston</b><br>Performed an experimental investigation into the response of a test sphere to an unsteady gust event. This particular project focused on the collection of force histories using a embedded sensor. Use of MATLAB and LabView.  |
| 2016        | <b>Chief Mate with MTO MARINE SERVICES, Picton</b><br>Relief crew aboard 21-car, short run passenger ferries. Responsible for vessel loading plan, with particular attention to distribution of cargo weight.  |
| 2016        | <b>Bridge Watch Rating with CANADIAN COAST GUARD, Central Region</b><br>Relief crew aboard the CCGS Griffon, a 71m multi-task vessel. Took part in buoy tending operations on Lake Ontario and the St. Lawrence seaway. Reliability clearance.   |
| 2013 - 2015 | <b>Captain with <a href="#">TORONTO BRIGANTINE INC.</a>, Toronto</b><br><i>Holding Master 150 GT certificate (Transport Canada)</i><br>Master of the youth training ship <i>Playfair</i> , an 18m, traditionally rigged sailing ship operating on the Great Lakes. Responsible for regulatory compliance, vessel operation, program delivery, ship maintenance and crew training. This included preparing and executing an annual maintenance plan, crew training schedule, and summer passage plan. Primary point of contact for suppliers, inspectors, service technicians and skilled trade workers. Also served as the owner's representative for a re-powering of the vessel. |

## EDUCATION

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|----------------|---|
| 2016 - PRESENT | <b>Bachelor of Applied Science in MECHANICAL ENGINEERING</b><br><b>Queen's University, Kingston (4<sup>th</sup> year, GPA: 4.19/4.30)</b> |
| 2008           | <b>Bachelor of Arts (<i>hon.</i>) in SOCIOLOGY and COMPUTER SCIENCE</b><br><b>Concordia University, Montréal</b>                          |

## ACADEMIC AWARDS

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2017, 2018, 2019	Dean's Scholar
2017, 2018, 2019	Lorne C. Elder Scholarship in Mechanical and Materials Engineering
2017, 2018	Undergraduate Student Research Award (NSERC)
2018	James Hickey Memorial Prize
2018	American Society for Metals Scholarship in Mechanical Engineering

## SOFTWARE LITERACY

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Intermediate:	MATLAB, SolidWorks, AutoCAD, Python, $\LaTeX$ , Microsoft Office
Basic:	C, Java, LabView, Linux