

Patrick SHOREY

Mechanical ENGINEER, 2020 Graduate

CONTACT

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ACADEMIC FOCUS

4TH YEAR: Vibrations • Fluid Dynamics • Turbomachinery
ELECTIVES: Oceanography • Astrophysics

SELECTED WORK EXPERIENCE

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| SUMMER 2019 | Engineering Support Staff with VARD MARINE , Ottawa
Prepared ship system drawings for client review within a quality management system. Drafting of reports and preparation of sketches for client review. Development of internal technical resources. Exposure to noise propagation, marine alternative fuels and ice navigation. Significant use of AutocAD |
| SUMMER 2018 | Student Researcher with RIVALLAB , Queen's University, Kingston
<i>Industrial partnership with MetalCraft Marine Inc.</i>
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 | Student Researcher with RIVALLAB , Queen's University, Kingston
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 | Chief Mate with MTO MARINE SERVICES, Picton
Relief crew aboard 21-car, short run passenger ferries. Responsible for vessel loading plan, with particular attention to distribution of cargo weight. |
| 2016 | Bridge Watch Rating with CANADIAN COAST GUARD, Central Region
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 | Captain with TORONTO BRIGANTINE INC. , Toronto
<i>Holding Master 150 GT certificate (Transport Canada)</i>
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

- 2016 - 2020 Bachelor of Applied Science in MECHANICAL ENGINEERING
Queen's University, Kingston (4th year, GPA: 4.19/4.30)
- 2008 Bachelor of Arts (*hon.*) in SOCIOLOGY and minor COMPUTER SCIENCE
Concordia University, Montréal

ACADEMIC AWARDS

- 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

- INTERMEDIATE: MATLAB, SolidWorks, AutoCAD, Python, \LaTeX , Microsoft Office
- BASIC: OpenFoam, C, Java, LabView, Linux