University of Waterloo

Faculty of Mathematics
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Employer Evaluation of Work Report

Work term for which report written: Year 20 14 ☐ January - April ☑ May - August ☐ September - December

Student's Name James Hawley ID No. 20423520

Year/Term 3A Program Mathematical Physics Coop. Report No. 3

Employer's Name Joseph Emerson / University of Waterloo

Title of Report Quantum Communication Complexity & Raz's Problem

Evaluator's Name Joseph Emerson Evaluator's Title/Dept. Assoc. Prof. / Applied Math

Evaluator's Signature [signature] Date Sept. 2, 2014

One of the requirements of Co-operative Education programs is that the students complete a minimum number of satisfactory work reports prior to graduation. Work Reports are marked by both the employer and an on-campus evaluator. To receive credit for the report, a student must receive acceptable or higher from both markers.

Providing appropriate feedback on the subject matter of the report can be difficult for the university evaluator since the content is normally related to the work environment. Therefore, we request your assistance in this area.

Please read the student's report, complete the evaluation below, and give it to the student who will include it as the last page of the report that is submitted to the University. With your assistance, the University evaluator will be better able to assess the report on presentation, structure, literary quality, and content.

Your input is greatly appreciated.

Quality of Subject Matter	Outstanding	Very Good	Good	Acceptable	Unacceptable
Command of Topic	☑	☐	☐	☐	☐
Technical Content/Analysis	☑	☐	☐	☐	☐
Overall	☑	☐	☐	☐	☐

To the best of my knowledge, this report is original work completed by the student. ☑ True ☐ False

Evaluator's Comments (if more space is required, please use the back of the page)

James' report is a very careful overview of results he obtained exploring an open research problem: whether the simulation of quantum communication using the discrete Wigner function could be optimal. While the results are inconclusive, we learned a lot about obstacles & possibilities to resolve this question.

Note: Please return to student to include as last page of work report to be submitted to the University.