

Distribution of Work

In addition to my work on the writing and editing of the final report (described below in the Authorship Table), I have contributed to many other factors during the course of this project. During the research and design phase of the project, I collaborated with my teammates to use a combination of secondary research and fluid flow analysis to design the virtual impactor portion of the machine. The secondary research consisted of both scholarly articles and interviews with experts in the field. The fluid flow simulations were run on COMSOL, and I was in charge of documenting our analyses.

I was also the lead contact for many of the specialized parts which were required for the project, such as the vacuum pump, flow controller, and specialized PVA tube. This entailed reaching out to many companies and comparing quotes, then working with our sponsors at both KTH and Stockholm University to order the parts.

Finally, during the testing phase of the project, I led all three tests of our virtual impactor. This included scheduling the tests with various research contacts at Stockholm University, learning to use the equipment, and monitoring the experiments. All of these responsibilities are of course in conjunction with my routine responsibilities like team meetings, supervisor and sponsor check-ins, and team organization tasks.

Authorship Table

The below table indicates the parts of the final report which were written and/or led by me. In addition, I was the primary editor and submitter of the entire research report.

Section	Subsections Written/Led
Introduction	1.1-1.4
Literature Study	2.1, 2.2 (flow diagrams), 2.7, 1.8
Methodology	3.1, 3.8
Results	4.1, 4.6
Discussion	5.1, 5.6
Conclusion	6.1