
I AM CIVIL ENGINEERING



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What my job is:

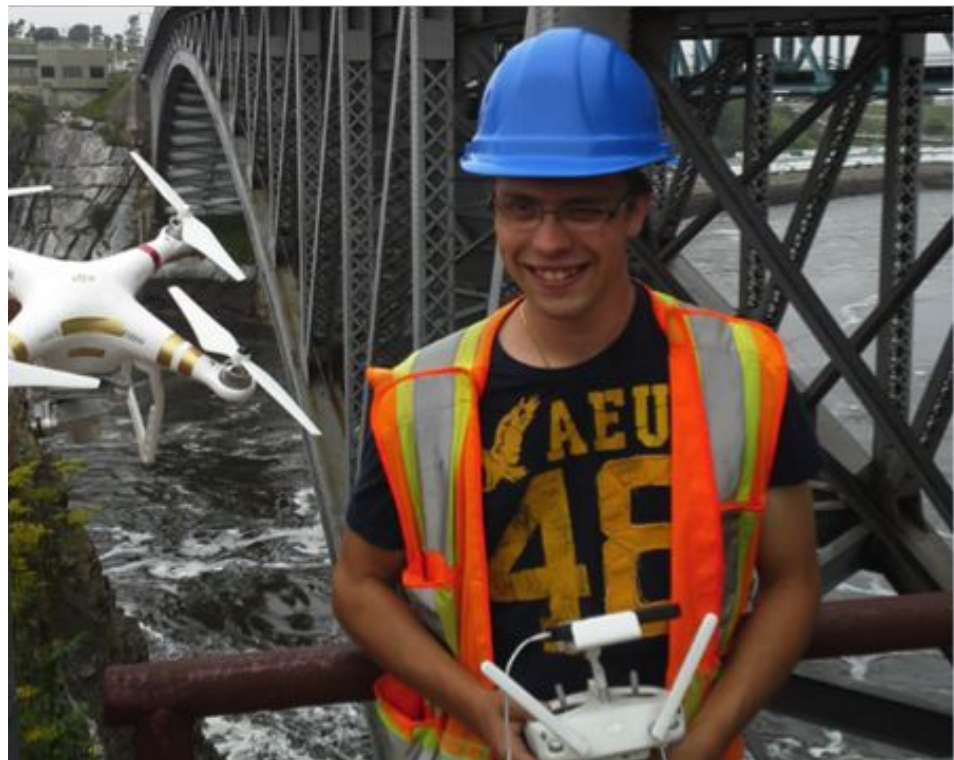
I conduct research and teach at the Department of Civil Engineering at UNB. Early in my career my research focused on automated scheduling techniques, then changed to information technology for the construction industry, and is now focused on innovation in the construction industry. I regularly teach a third year course entitled “Construction Engineering,” a final year course entitled “Project Management,” and a graduate course entitled “Work Improvement.”

Why I became a civil engineer:

I grew up on a small farm in Nova Scotia with a mother who taught at a one-room school house and a father who drove a grader for a road building company during the construction season. At the time, I was very interested in working outside and wanted to be involved in building construction; later I became interested in managing projects, and went to graduate school for that reason. When you love your work, one thing leads to another.

The project I worked on that I think best represents sustainable infrastructure:

I am currently working on a research project with a graduate student, Laird Ferguson,



Laird Ferguson, flying our UAV while inspecting the abutments of the Reversing Falls bridge in Saint John, NB

who is using a UAV (unmanned aerial vehicle) to inspect inaccessible infrastructure and to assess a recent storm event in New Brunswick. This project builds on research that I started in 2006 using virtual reality to document the progress on construction

sites. I feel lucky to be able to combine my high school interest in photography with my graduate school interest in information technology to make public infrastructure maintenance and replacement more sustainable.



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