## Letter of Intent

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Glenn MacLeod  
Instructor, Electronic Engineering Technology

Stephen McCarron  
Instructor, Electronic Engineering Technology

Nova Scotia Community College  
80 Mawiomi Place  
Dartmouth, NS B2Y 0A5  
  
Dear Mr. McCarron and Mr. MacLeod,

For my senior project I will be developing a system that will be able to analyze, and display efficiency data from a solar air heater. My project will take data measurements such inflow and outflow air temperature and use the other data such as airflow rate and outside temperature to calculate the efficiency of the unit. I plan on using a microcontroller such as the Raspberry Pi to take measurements and to host a local web server to allow for remote access to the data.

Once I get a Raspberry Pi I will be making a program to take temperature measurements and log the data. I will slowly be making this program more and more complicated to include more types of data and to display the data in a more convenient way. My goal is to, by the end of the year, have a self-contained device that will work through power outages, and Wi-Fi interruptions that can effectively measure the efficiency of the Cansolair solar heater year round and display the data on a local server to be remotely accessed.

Sincerely,

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Dylan Stone