Traditionally, the task function needs to be a function with C linkage, and takes 1 void \* parameter (for the pvParameters variable). Unfortunately, this means you cannot use a C++ member function (a.k.a method, a function which belongs to a class and is not static).

There are a few ways to solve this problem:

1. Define the task function as static, or put the function outside of a class altogether (so it is just like a regular C function).
2. Pass in the object as part of the pvParameters variable, and then create a wrapper function which casts this variable back into a function pointer.