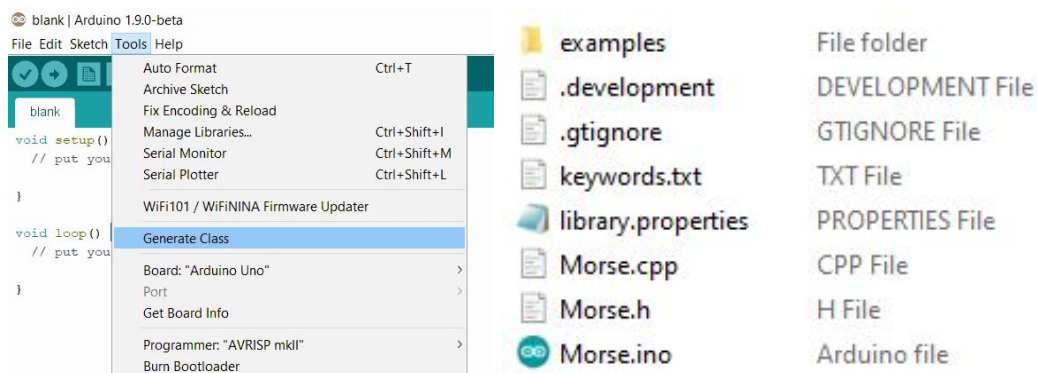# Embedded Helper Software Example

Arduino is a widely popular electronics prototyping platform[1], but Arduino Libraries are time consuming to write, and there are no tools designed to automatically create them.

Experiencing this problem at the Brandeis University Makerlab, we created the only software that automatically generates Arduino libraries[*]. This utilizes object-oriented programming to organize client code and standardize good programming habits, improving code readability and maintainability. We have also used it as an educational tool to teach object oriented programming to students.

We are launching a Beta Test for our software, and are looking for groups interested in joining the beta test and giving us feedback on it.

The demonstration is shown below, once the software is installed as an extension for the Arduino IDE, select Tools → Generate Class. You can then convert the selected sketch or see an example.

Location in the tools menu and automatically generated files

The example will start with a sketch that flashes a light in morse code and convert it into an Arduino Library. It creates the same result as the library writing tutorial[2] but in one click! You can see all the generated files, which is everything you need to publish your library[3] to the public listings!

Please email jsmith2021@brandeis.edu if you are interested in joining the beta test

-Jacob Smith, Co Founder of [Embedded Helper](#)

*This is a a third party tool not endorsed by Arduino