LANG 2030 Checklist for Conducting Research for Innovation Project

Before you start searching Google or Library databases, think about the following questions:

1. What are the major features of your innovative engineering idea (these can become terms / keywords you enter to search for sources)?
__________________________________________________________________________________
__________________________________________________________________________________

2. You can use a range of keywords and search terms (e.g. “and”, “or”, “*”, etc.) to broaden or to focus your search? Which keywords may be useful?
e.g., (“energy saving” or “energy efficient” or “power saving”) and light*
__________________________________________________________________________________
__________________________________________________________________________________

3. You can exploit different tools to locate relevant, credible and quality sources for your project? Tick the tools you intend to use in your search:
   • Library Databases (name: _________________)
   • Google
   • Google Patent
   • Specialist Encyclopedia
   • Others: ______________

You should continue to look for useful sources as you develop your ideas for the innovation.

As you approach your writing task, you should think carefully which of the sources you should cite in your report.

1. You should provide background to your project and establish a niche in the Introduction. Are there sources that can help you achieve these?
__________________________________________________________________________________
__________________________________________________________________________________
2. You need to include a Literature Review. Here you are required to review relevant technologies that can help you prepare your readers for the innovation.

- What are the technologies that you will review?
- What are the sources that you want to refer to?
- Do you know how to cite these in the IEEE style?

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You may want to cite other sources in the Technical Description or the Feasibility and Benefits sections, but this is not a must.

When you have finished drafting your report, you should review your use of sources again. Ask yourself the following questions:

1. How many sources do you need to cite in your proposal report?

2. Look at the sources that you have included in your proposal. Why do you want to cite these sources? Is it because:

- The authors are experts in the subject area?
- The sources are published in scientific journals or trade journals?
- The sources are patents?
- The sources are listed top in the search results?
- The sources support the engineering principles / theories related to your innovation?