

FINAL PROJECT PROPOSAL

**Names: Nicko Stewart**

**Project: Steam whistle and Hydrogen generator for gas powered engines**

**Part A: Project Ideas & Objectives**

**for the steam whistle i would like to build a working model using the 3D printer**

**for the hydrogen generator i would like to buil one for my truck.**

**Part B: Electronic Resources**

[**https://www.youtube.com/watch?v=RqbV1pQ6zpo**](https://www.youtube.com/watch?v=RqbV1pQ6zpo)

[**https://www.youtube.com/watch?v=JRuYjDs2rFw**](https://www.youtube.com/watch?v=JRuYjDs2rFw)

[**https://www.youtube.com/watch?v=dt8wtOkUukQ**](https://www.youtube.com/watch?v=dt8wtOkUukQ)

[**https://www.youtube.com/watch?v=bED2Z\_wdISg**](https://www.youtube.com/watch?v=bED2Z_wdISg)

[**https://www.youtube.com/watch?v=\_O3-C-19qHE**](https://www.youtube.com/watch?v=_O3-C-19qHE)

[**https://www.youtube.com/watch?v=u5nld6HzEjM**](https://www.youtube.com/watch?v=u5nld6HzEjM)

**Part C: Materials, Design**

**for the steam w whistle it just needs to be 3D printed**

**[](http://www.google.ca/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwjzpK_u0IHLAhVlvYMKHWCiCHYQjRwIBw&url=http%3A%2F%2Fwww.dreamstime.com%2Fphotos-images%2Fsteam-whistle.html&bvm=bv.114733917,d.amc&psig=AFQjCNG2bYn4yKXrTg8mE5aE6yoUCvZf4A&ust=1455895711761139)**

**for the hydrogen generator i need a clear jar with lid and clear flexible hose and a roll of aluminum wire 2 bolts 4 nuts 2 washers a tube of goop and to 3D print a holder for the wires**

**[](https://www.google.ca/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&uact=8&ved=0ahUKEwj92pvrz4HLAhVqkIMKHROCAKIQjRwIBw&url=https%3A%2F%2Fwww.youtube.com%2Fwatch%3Fv%3D-rUUp9XRf1s&psig=AFQjCNHVsMHeYlh8ocvoJvaGjXFNrvMyPA&ust=1455895576209353)**