

Emergent Object

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PROJECT OVERVIEW

You will design and fabricate an electronic object with a programmed user interface. A complete submission encompasses the following aspects:

- The realization of the design as envisioned
- The success of the user interface and functionality of the object.
- The aesthetic presentation of the object.
- The documentation of the creative process and the final product.

This document describes the process and the first two deliverables required for the *Emergent Objects* project. Further deliverable descriptions will be appended here.

[Link to github repository](#)

[Link to html version](#)

[Link to PDF version](#)

To do list

- ☐ Inspiration Board (described here)
- ☐ Proposal Document (described here)
- ☐ Sketch
- ☐ Functional Diagram
- ☐ Psuedo-code
- ☐ Mechanical Drawing
- ☐ Bill of Materials
- ☐ Code
- ☐ Documentation post (*Learning Portfolio*)

The screenshot shows a Google Docs interface. The title bar at the top reads "Apollo 11 research" with a star icon and a user profile icon. Below the title bar is a menu bar with "File", "Edit", "View", "Insert", "Format", "Tools", "Table", "Add-ons", and "Help". A status bar indicates "Last edit was 3 hours ago". On the right side of the title bar, there are "Comments" and "Share" buttons. The left sidebar contains a "Document Outline" panel with a list of sections: "Apollo 11", "Summary", "The Spacecraft", "Design", "Command module", "Service module", "The People", "Neil Armstrong", "Buzz Aldrin", "Mission Highlights", "The Launch", "The Landing", and "Return Trip". The main content area displays the document text, which is structured as follows:

Apollo 11

Summary

This is a research paper about the Apollo 11 moon mission in which Neil Armstrong, Buzz Aldrin, and Michael Collins landed at Tranquility Base on the moon. The Apollo 11 lunar module, AKA The Eagle, landed on the moon on July 20, 1969. When they landed, the message they sent back to Mission Control was "Tranquility Base here. The Eagle has landed."

The Spacecraft

The Apollo 11 mission had three spacecraft: the Command Module Columbia, a Service Module, and the Lunar Module Eagle. Columbia was the only part of the spacecraft to return to Earth.

Design

The key NASA spacecraft involved in the Apollo 11 mission were the following: a Saturn V rocket, an Apollo CSM-107 (Command/Service Module) and an Apollo LM-5 (Lunar Module, AKA "The Eagle").

Command module

The Command/Service Module (CSM) was one of two spacecraft, along with the Lunar Module, used for the United States Apollo program which landed astronauts on the Moon. It was built for NASA by North American Aviation. It was launched by itself into suborbital and low Earth orbit test missions with the Saturn IB launch vehicle, and three times by itself and nine times with the Lunar Module as part of the Apollo spacecraft assembly on the larger Saturn V launch vehicle, which was capable of sending it to the Moon.

Service module

The Service Module contained oxygen, water, and electric power for the command module. It also housed the service propulsion system—the rocket engine that put the spacecraft into lunar orbit and later boosted it back

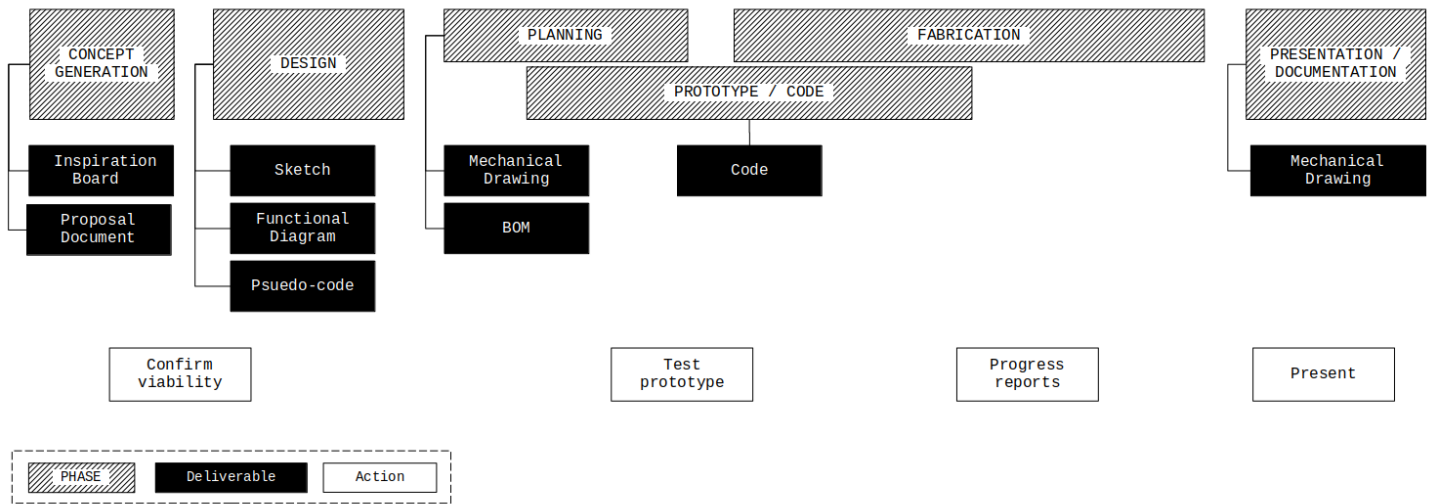
PROPOSAL DOCUMENT

Create a single page document describing what you will make. We will use this document to customize a plan specific to your design goals. You will post your document to Canvas but please share it with me at churia@newschool as soon as possible.

Include:

- A working title for the object.
- A description of the object.
- A description of how the user will interact with the object.
- Any concerns you have about the creation of this object.
- Any links you have to similar works.

PROCESS DIAGRAM



This diagram shows the relationship of the deliverables to the overall phases of the project. Please note that most of the deliverables take place in the beginning of the project.

[Direct link to diagram](#)

