Comments while going over the draft:

* If someone reads the introduction, they should be able to say a 2 sentence summary
  + In-situ should be in the 2 sentence summary
* Structures:
  + More research into other options (modified 3-axis printer) to include to the literature review
  + Can keep the 3-axis in the back of our heads in terms of prototyping
  + Think about feasible prototype options
* Printer design:
  + Mention lack of existing research in lit review
  + Have to have plan B, C, and D
    - Things are going to fall apart, so you have to be ready when you can’t build your own
  + These are all such commercially available product
  + Is it novel?
  + What parts do you need to make the extruder head?
    - Fair amount work to put into making an extruder head
  + Recommendation:
    - Gather some specs on what’s commercially available
    - Methodology would contain the designs
    - Seems easy but the devil’s in the details
* Software
  + What are you trying to scan?
    - Want to scan voids of such and such geometry
      * Need to define the problem
      * Define the size of the things we’re trying to solve!
        + Be backed up in literature review
    - Are you doing this for fun or trying to solve a problem
    - Need to have literature review on anything that will give you numbers?
  + Triangulation
    - 10 feet max in range
    - Totally scalable
    - Sufficient for our project
    - Makes life easier please because research is already done and hardware can be supplied and everything
  + Recommendation:
    - Be able to look through everything, identify what doesn’t work, say why, and then pick one, and say why it’s the best way
  + Toolpath planning:
    - It’s cool. Nice

Overall:

* Can include commerical specs in literature review, doesn’t have to be all literature
* Have to start constraining the problem more
* Assignment:
  + Come back and say more concretley on what exactly you’re trying to print (with dimensions)
  + **Surfaces and Geometry must be defined** → **must go into the literature review**
    - Right now we’re saying we just want to print. But what are we trying to print on??
    - Leads to specifics of design and methodology
  + Something has to motivate the geometry of the concave structure.
    - Critical dimension
    - Defines nozzle
      * Want longer nozzle? How long?
* Applications section should be the driver for the requirements
* Literature Review → background investigation
  + To what degree has this topic been researched?
  + Why is the work worthwhile and beneficial to the rest of the world?
  + **Identifies the gaps in research**
* Methodology → should be based off of the literature review

Basically, **REQUIREMENTS&DETAILS**