

Intro Q's:

What are your expectations for this project?

Are there project specific time constraints, deadlines that we should be aware of (outside the Senior Design timetable)?

Besides yourself, who are other stakeholders in this project?
Who will be using this device/ technology?

What are your priorities for this project?

In terms of deliverables, can you tell us the level of importance of customer needs from absolutely essential to "this would be *nice* to have"?

Is there an Initial concept you have in mind? (Preconceived notions of a solution)

Current solution Q's:

What are the particular problems associated with filament printing today?

Where can we view, measure, tinker, with existing print heads and 3D printers? Are we given a 3D printer to use?

Can we see the pellets that we will be working with?

One major risk associated with this project has to do with heat management. How do the best printers currently manage heat? What has been the most effective means of heat isolation and management?

What kind of electrical interfaces will we encounter (wiring, coils, circuits, etc.)?

How much lead time will you need from us if we would like to run an experiment?

What kind of documentation are you looking for? (i.e. operation manual; 1 pg, 10 pg, 20pg)?

If materials need to be changed, what is an ideal changeover time?

Future solution Q's:

With ULTEM, PEI, and PPS after the material solidifies, can we reheat it?

Are there any materials we should anticipate using outside of the PRP?

What temperature do the printheads operate at currently? and what temperature should we anticipate using with the pellets?

With regards to CAD Modeling software, we have experts with different products, should we stick to one specific software?

Research suggestions (i.e. Universities, websites, keywords, other resources)?

In printer head design, are there any visible trends that you have noted?

Closing Q's:

Should we avoid certain pathways that might distract us?

Best times to contact you? General schedule? Do you have office hours? Can we pick a time to meet weekly with John and yourself?

Alternate contacts?

Can we gain swipe access to the lab?

What question should we have asked you that we didn't?

At the end of this year, what will this project look like for you to be content? In order to "wow" you?