

CS3210: Pre-proposal

Tim Andersen

Kyle Harrigan

General comments on pre-proposals

- Many too short, most insufficient (that's okay, this is the pre-proposal)
- What (can) drive(s) a project?
 - Identified need / shortfall (not solutions looking for problems)
 - New approach (optimize, refine)
 - Curiosity / proof of concept (can we do it?)
- A sensible project flow:
 - Identify problem, propose potential solutions
 - Refine and choose approach
 - Implement, then document

Heilmeier's Catechism

- What are you trying to do? Articulate your objectives using absolutely no jargon.
- How is it done today, and what are the limits of current practice?
- What's new in your approach and why do you think it will be successful?
- Who cares? If you're successful, what difference will it make? What are the risks and the payoffs?
- How many people do you need? How long will it take? What are the milestones to check for success?

Heilmeier Credentials

- Why listen to Heilmeier?
 - Pioneering contributor to liquid crystal display (LCD)
 - RCA labs, DARPA (director), TI, Bellcore/Telcordia, others
- Notable awards (too many to list on slide)
 - IEEE Founders Medal
 - National Medal of Science
 - IRI Medal
 - IEEE Medal of Honor
 - John Fritz Medal

So, what now? Next steps...

- You will have an opportunity to refine your proposal and re-submit by 10/25 at 9pm.
- In-class exercise
 - Join up with your project groups
 - Refine your proposals with this guidance in mind
 - We will be available to answer questions