Undergrad, Masters, and PhD Thesis? Kevin Elphinstone

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Outline Define what a thesis is. Describe what is expected in thesis/dissertation. Explain how to go about doing one. Different expectations of Undergrad, Masters and PhD. Talk about reviews









Thesis

- Systematic investigation of a significant problem resulting in new applications, new solutions, or new insights.
- A hypothesis (a position or solution) and a methodical substantiation or validation.

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Characteristics of a Good Thesis Statement

- Short: A paragraph
- Focused doable in time and space.
- · A single theme.
- States the area your working in
- · States the position you are taking
- · Provides the direction for the thesis
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Better Example

- Single Address space systems place differing demands on page table structures when compared to conventional systems.
- This thesis will identify the limitations of existing page table structures in a SASOS environment.
- We propose XYZ Page Tables to address those limitations.

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- · The "so what" criteria!
- · Must be able to answer
 - Why is this problem important?
 - Who/what will benefit (and how) from the results?

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Make the Committee's Life Easier!!



 Don't let us have to dig too hard for them
 Committee members (especially those not working directly in the field) are not good miners.

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Some "Red Flags"

- "I am going to find the holy grail!!!!"
 - E.g. I will build a simple, internet scale, general purpose, high performance, secure, transparent, distributed operating system that satisfies everyone's requirements.













Some "Red Flags"

- "My idea must be novel as Linux (or substitute your favourite OS) does not do it yet"
 - Linux (or your favourite OS) is not necessarily state-of-the-art

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Second Year Review

• Same as first year review, except the "thesis" should be taking shape.

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