

## **CSEP 590B, Homework 2, Due April 20, 6:30 PM**

Kurtis Heimerl is writing a case study chapter for the Development Engineering text being compiled by a group from UC Berkeley. For this assignment, you are to read the draft chapter, provide some general feedback, and answer a group of questions. Your assignments will be shared with Kurtis so that he can see your responses.<sup>1</sup>

Submit a PDF write up by email to Naveena before 6:30 PM, Monday, April 20.

For the book, each author will present their challenges in implementing and scaling technology in the form of a “case study”. Each author will present their challenges in implementing and scaling technology in the form of a “case study”. All case studies will build on a common template, to create continuity and pedagogical consistency. The case studies will emphasize the different components of the development engineering cycle (innovation - evaluation- adaptation ). **“Innovation”** will address how the researcher identified a development challenge that could be addressed using technology, and implemented/scaled the technology in the field. The authors will write this section with an emphasis on the iterative nature of implementation – retesting prototypes based on pilot runs, refining hypothesis due to feedback from the field. **“Evaluation”** will address how the innovation’s successes and shortcomings were assessed, and what are the lessons and takeaways from the success or failure of this particular case study for students, other researchers, and future implementers. **“Adaptation”** will focus on attempts to scale up an existing technological innovation and the challenges in doing so.

Answer the following questions about the Case Study:

- 1: How does the text address each of the three major components: Innovation, Evaluation, and Adaptation. What are the key takeaways for each of these components?
- 2: What are the key engineering lessons presented from this case study that are likely to generalize to other Development Engineering contexts?
- 3: Does the text provide enough context for you as a student? Where can it provide more detail or context to those who are learning about the area?
- 4: Any other feedback for the author?

Your write up / answers should be about 1500 words or three pages.

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<sup>1</sup> If you have concerns about having your work shared with Kurtis, please contact the instructor. Kurtis will have no role in evaluating assignments.