Progress report #2 consists of your process model - a description of how you will transform your input into your output. Borrowing from the world of model-driven engineering, the process model is the platform-independent model or PIM that follows from the computation-independent model (the CIM). Thus, it does describe the computation but at a level above that needed to develop for a specific platform.

UML diagrams or schematics are appropriate in this report. Assume that the audience is a manager from your field of expertise, but not the team responsible for implementing it. They would need a more refined platform-specific model (the PSM). That model would be appropriate for an appendix in your final report.

Note: This report builds on your previous work. You advisor only needs to sign off any new material, but you are expected to turn in your progress report #2 incorporated into a revised version of progress report #1. Keep a notebook containing your completed sections with dividers to turn in for easy review.