**Expert Interviews: Learning from both Engineers and Non-Engineers**

*Stage 1: Conduct the Interviews, Collect Data, Fill out Worksheet*

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| *Prompt*  | *Engineer Response*  | *Non-Engineer Response* |
| Age range (< 18, 18-29, 30-39, 40-49, 50-50, > 60 years old): |  |  |
| Gender: |  |  |
| Relevant Expertise: |  |  |
| 1. Why would you solve this problem? What needs does it address?
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| 1. What resources are needed to solve the problem, including people (with specific skills, expertise, and/or experiences) and other resources (money, equipment, facilities etc.)?
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| 1. What would a solution look like? What problems might a solution cause?
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| 1. How do you decide if your solution solved the problem?
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| 1. What is missing from the problem? What is uncertain and/or ambiguous?
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Stage 2: *Now rewrite the original problem statement and list critical elements of a potential solution based on the information offered by the Engineer vs. the Non-Engineer*

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|  | *With Regards to the Engineer Interview* | *With Regards to the Non-Engineer Interview* |
| Rewritten Problem Statement |  |  |
| List critical elements or important features of a proposed solution to this problem. |  |  |

Finally, combine both of the rewritten problem statements above to generate a single final problem statement:

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Identify critical elements or important features of a solution to your combined problem statement:

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What from the interviews, your values, and your experiences motivated the ultimate changes from the original to the final problem statement and/or elements of a solution? Comment and explain.

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