CruiseAuto Project – Milestone 1B

**ANSWER SHEET:** Parameter Identification Brainstorming

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# Part 1. Assignment Header

**Section and Team ID:** <replace this text with your SSS\_TT ID>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Team Member Name** | **Purdue Career Account Login** | **Programmer Number** | **Detailed Description of the Work** | **Percent of Work** |
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|  |  |  |  |  |

# Part 2. Milestone 1A Feedback and Reflection

Strength: <answer here>

Limitation: <answer here>

How could the feedback from M1A lead to improvements? <answer here>

What concrete steps will you take to incorporate the M1A feedback to improve your data visualization and handling? <answer here>

# Part 3. Examine the Data

<include your figure(s) for data visualization here>

# Part 4. Brainstorm & Evaluate Coding Processes Using Experimental Data

## Part 4a. Approaches to Managing Noise

**Approach #1 to Managing Noise:** <describe your approach here>

What is your evidence-based justification for your approach? <answer here>

What is your expected difficulty for coding in MATLAB (low, medium, high)? <answer here>

Why do you think it will be at the level of difficulty you indicated? <answer here>

**Approach #2 to Managing Noise:** <describe your approach here>

What is your evidence-based justification for your approach? <answer here>

What is your expected difficulty for coding in MATLAB (low, medium, high)? <answer here>

Why do you think it will be at the level of difficulty you indicated? <answer here>

## Part 4b. Approaches to Managing Error

**Approach #1 to Managing Frozen Sensor Data Points:** <describe your approach here>

What is your evidence-based justification for your approach? <answer here>

What is your expected difficulty for coding in MATLAB (low, medium, high)? <answer here>

Why do you think it will be at the level of difficulty you indicated? <answer here>

**Approach #2 to Managing Dropped Data Points:** <describe your approach here>

What is your evidence-based justification for your approach? <answer here>

What is your expected difficulty for coding in MATLAB (low, medium, high)? <answer here>

Why do you think it will be at the level of difficulty you indicated? <answer here>

**Approach #3 to Managing High/Low Reading Data Points:** <describe your approach here>

What is your evidence-based justification for your approach? <answer here>

What is your expected difficulty for coding in MATLAB (low, medium, high)? <answer here>

Why do you think it will be at the level of difficulty you indicated? <answer here>

# Part 5. Brainstorm Approaches to Parameter Identification

## Part 5a. Approaches to Identifying Acceleration Start Time

**Approach #1:** <describe your approach here>

What is your evidence-based justification for your approach? <answer here>

What is your expected difficulty for coding in MATLAB (low, medium, high)? <answer here>

Why do you think it will be at the level of difficulty you indicated? <answer here>

**Approach #2:** <describe your approach here>

What is your evidence-based justification for your approach? <answer here>

What is your expected difficulty for coding in MATLAB (low, medium, high)? <answer here>

Why do you think it will be at the level of difficulty you indicated? <answer here>

## Part 5b. Approaches to Identifying the Time Constant

**Approach #1:** <describe your approach here>

What is your evidence-based justification for your approach? <answer here>

What is your expected difficulty for coding in MATLAB (low, medium, high)? <answer here>

Why do you think it will be at the level of difficulty you indicated? <answer here>

**Approach #2:** <describe your approach here>

What is your evidence-based justification for your approach? <answer here>

What is your expected difficulty for coding in MATLAB (low, medium, high)? <answer here>

Why do you think it will be at the level of difficulty you indicated? <answer here>

## Part 5c. Approaches to Identifying Initial & Final Speed

**Approach #1 – Initial Speed:** <describe your approach here>

What is your evidence-based justification for your approach? <answer here>

What is your expected difficulty for coding in MATLAB (low, medium, high)? <answer here>

Why do you think it will be at the level of difficulty you indicated? <answer here>

**Approach #2 – Final Speed:** <describe your approach here>

What is your evidence-based justification for your approach? <answer here>

What is your expected difficulty for coding in MATLAB (low, medium, high)? <answer here>

Why do you think it will be at the level of difficulty you indicated? <answer here>

# Part 6. References

<list references for any external sources used here>