

Prompt:

Write at least one complete use case - divide up amongst team members so that each student completes a different one.

Rubric:

| Criteria | Sufficient 2 points | Needs Work 1 point | Missing 0 points | Criterion Score |
|---|------------------------|-----------------------|---------------------|-----------------|
| Clearly states the scenario | | | | / 2 |
| Properly formatted | | | | / 2 |
| Includes all relevant actors/stakeholders | | | | / 2 |
| Includes relevant tasks and timing | | | | / 2 |

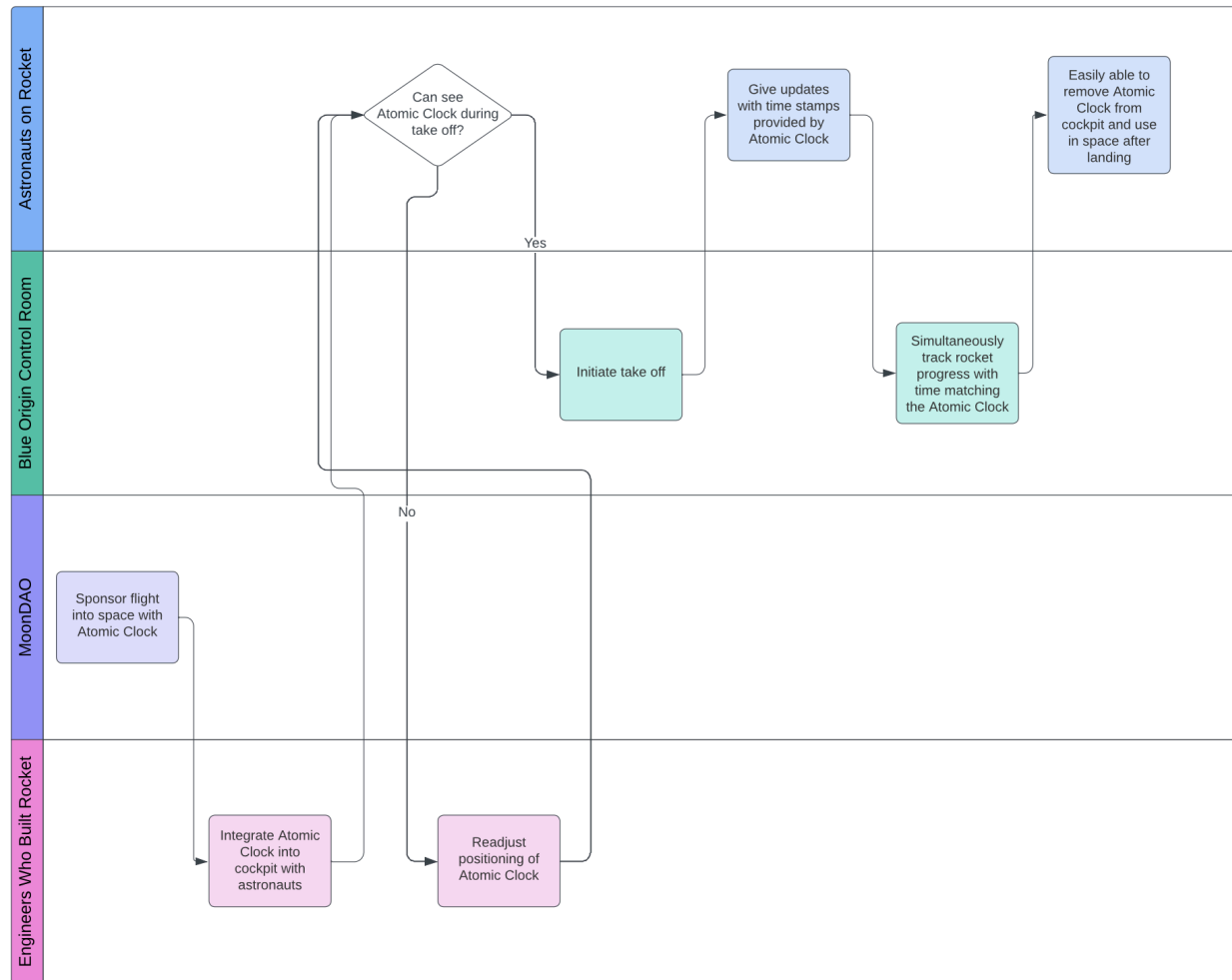
Use Cases:

1. Atomic clock used to track takeoff of Blue Origin rocket with astronauts
2. Atomic clock used to calculate the position and trajectory of a SpaceX rocket in deep space
3. Atomic clock used for error checking diagnostics of the cubesat
4. Atomic clock used to record precise timestamp for data collection
5. Atomic clock used to allow for proper communication between different channels (baud rate)
6. Atomic clock used for experiments that require precise timing
7. Atomic clock used for time-based encryption between cubesat and ground communications.

Use Case #1:

Eva Czukkermann

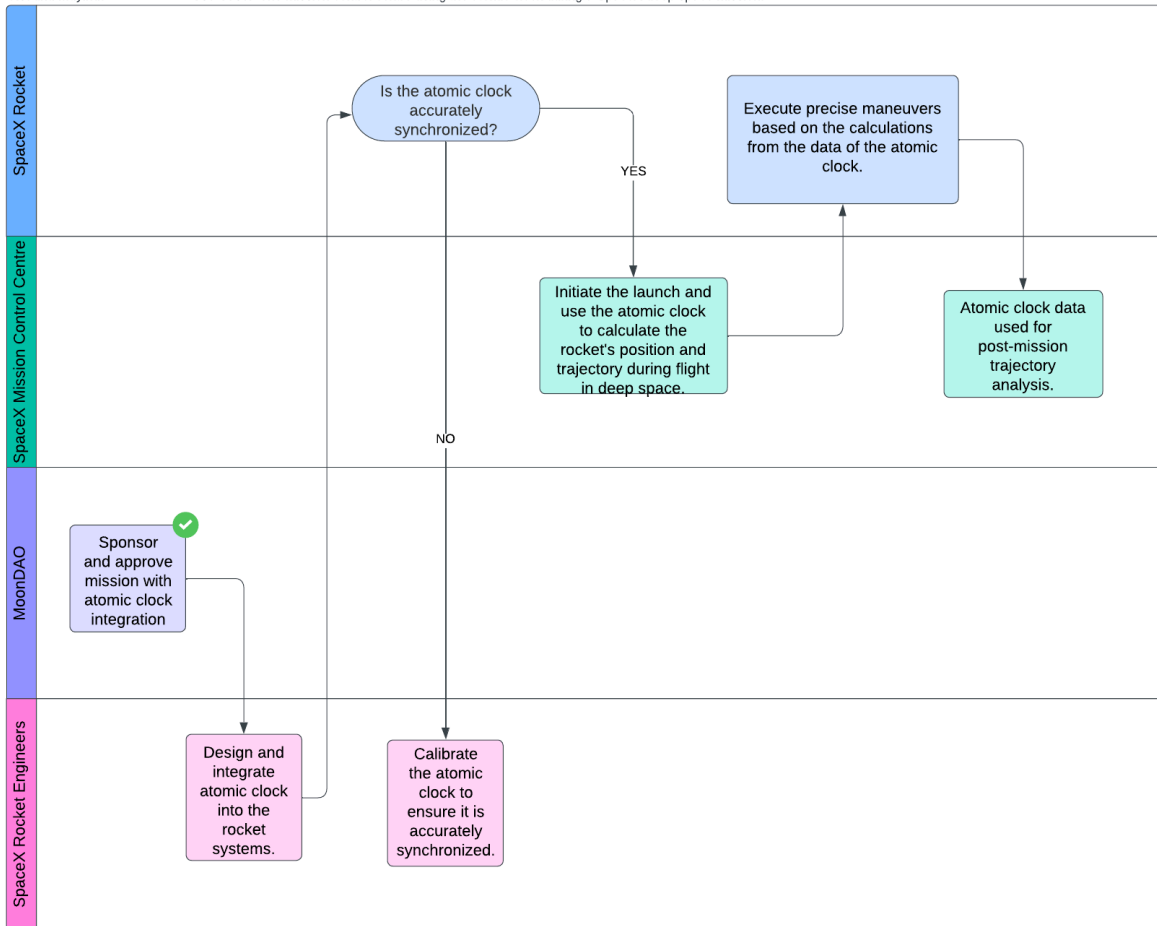
Scenario: Astronauts using Atomic Clock during take off and while in space on a Blue Origin rocket.



Use Case #2

Nsadhu Muyinda

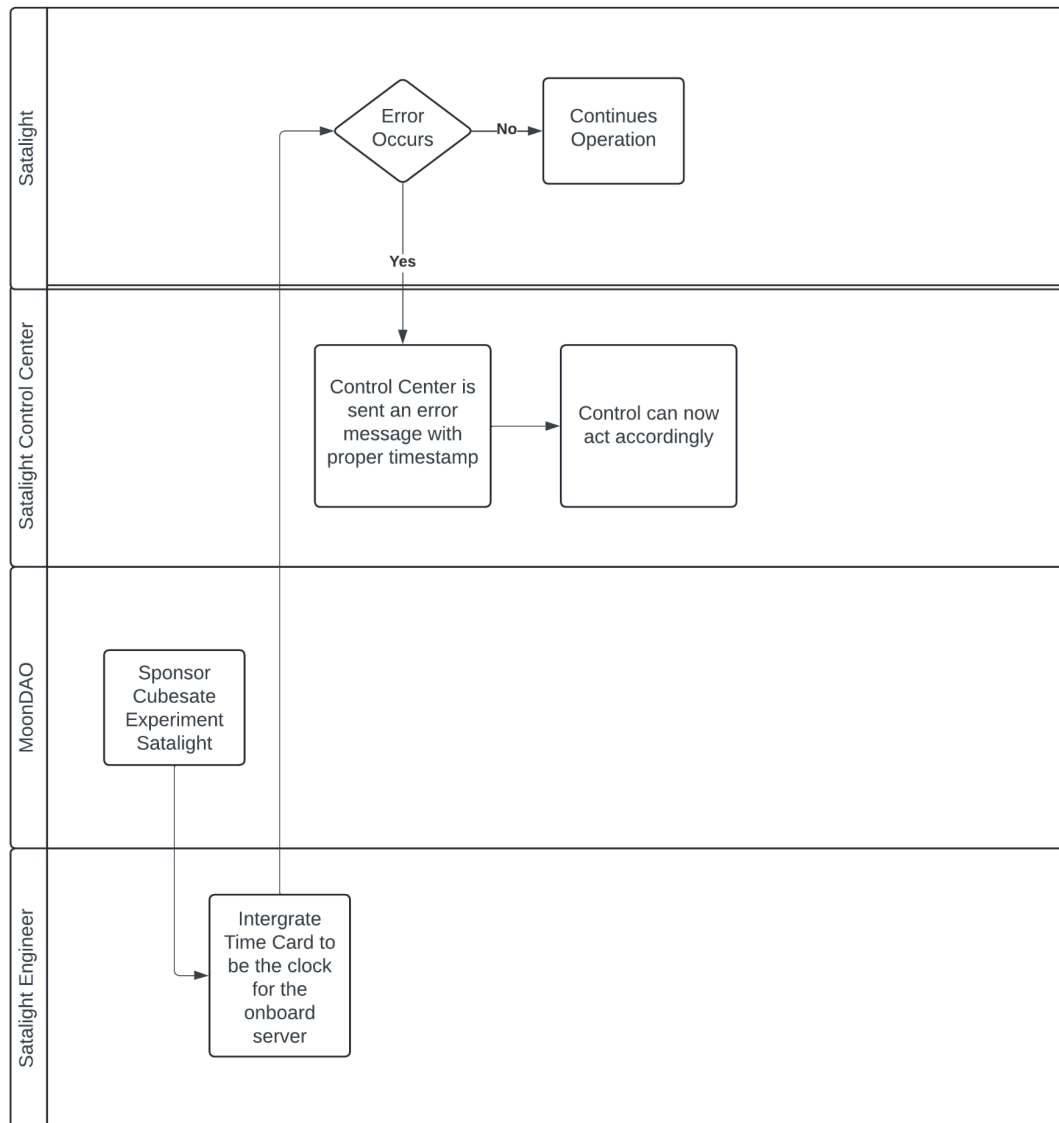
Use Case: The mission control centre using the atomic clock during a SpaceX deep space mission.



Use Case 3:

Luke Schrom

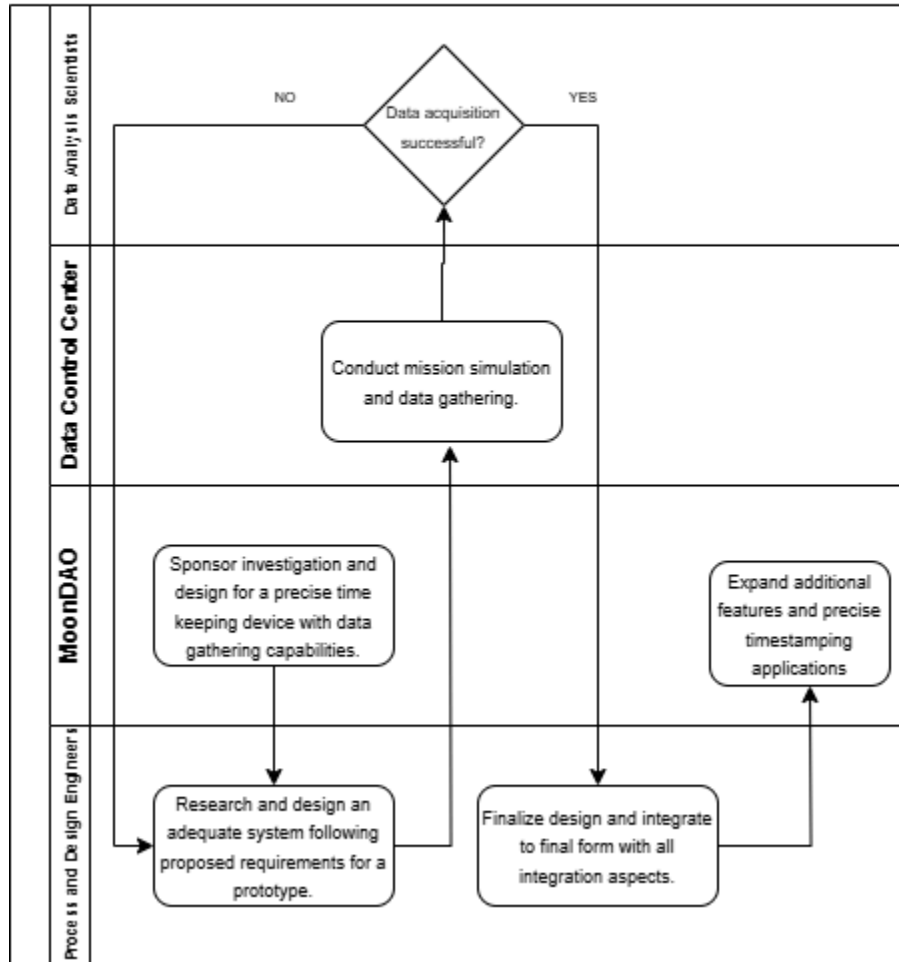
Use Case: Atomic clock used for error checking diagnostics of the cubesat



Use Case 4:

Drew Schacke

Use Case: Atomic clock used to record precise timestamp for data collection



Use Case 7: Atomic clock used for time-based encryption between cubesat and ground communications.

Name: Tanner Smith

Use Case: Atomic Clock / Time-card used for time-based encryption between satellite and ground based communications.

