|  |  |  |
| --- | --- | --- |
| **User Story / Requirement ID** | **User Story/Requirement Under Test** | |
| 001 | As Iron Man Suit Pilot, I want that my air flaps have 0° to 85°  degrees of opening for better flying control. | |
| ***Is it valid?*** |
| YES |
| ***If not valid, what is the new/Extra information from Marketing/Product Owner?*** | | |
|  | | |
| **Test Case ID** | **Test Case Name** | |
| IronMan | Flying control | |
| **Test Case Steps** | | |
| **Step Number** | **Step description** | **Expected Result** |
| **1** | Check out flaps motors respond correctly to external  voltage | Motor moves to the desired position  In an external environment. |
| **2** | Check mechanichal errors contacting the flap | The flap should be able to move freely  Without obstruction. |
| **3** | Check enough power is going into the motors | The motors should move as soon as  they are powered. |
| **4** | Check angle limits | The flaps should not go over the  specified angles. |
| **5** | Check for software bugs | Code should compile and work as  intended. |
| **6** | Check external wind/pressure conditions | The forces can affect correct flaps  deployment |
| **7** | Check humidity conditions | A wet area could moisten flaps  movement |
| **8** | Check for an amount enough of oil inside the flaps | No oil no correct mechanical action |
| **9** | Check current general speed of the suit | The more the speed the more tensile force  on the flaps the is needed |
| **10** | Check physical surroundings | The suit could be in a close space  immobilizing the flaps |

|  |  |  |
| --- | --- | --- |
| **User Story / Requirement ID** | **User Story/Requirement Under Test** | |
| 002 | As Sith Knight, I want that my light saber firmware turns off  my saber when kyber crystal gets overheated (1420°F). | |
| ***Is it valid?*** |
| YES |
| ***If not valid, what is the new/Extra information from Marketing/Product Owner?*** | | |
|  | | |
| **Test Case ID** | **Test Case Name** | |
| Sith Knight | Overheated light saber | |
| **Test Case Steps** | | |
| **Step Number** | **Step description** | **Expected Result** |
| **1** | Check current inner temperature before testing | Seconds |
| **2** | Prove internal temperature sensor  Start increasing temperature in an external environment  with the sensor | The sensor gives the correct external  temperature. |
| **3** | Prove firmware turnsoff whenever it is desired. | Saber firmware responds correctly  to the environment. |
| **4** | Check that the lightsaber actually turns off as it reaches  that temperature. | Lightsaber should be powered off  when it reaches an specified  temperature |
| **5** | Check temperature influence of saber on the handler | Saber must be able to concentrate  the temperature on specific regions |
| **6** | Check current external temperature | Temperature |
| **7** |  |  |
| **8** |  |  |
| **9** |  |  |
| **10** |  |  |

**Activities on GitHub**

On the GitHub repository of your project: in teams, analyze the following user stories and create a *test case* for each of them:

1.- As Iron Man Suit Pilot, I want that my air flaps have 0° to 85° degrees of opening for better flying control.

2.- As Sith Knight, I want that my light saber firmware turns off my saber when kyber crystal gets overheated (1420°F).

*Commit your test case on your GitHub repository as it was taught on the* Introduction to Control Version *Module****.***

***Do NOT forget add this instructions file!***

Send an email to the following engineers with the link of your GitHub repository. Attached files will not be accepted.

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**Activity: TestCases; Team: <name of your team>**

Delivery date: October 5, 2019 at 22:10 hrs.