

## **W15**

People & Teams Wednesday, October 17th, 2018 3:00 PM

## Testing at 43,000 Feet: Reporting Risk That Matters

Presented by:

## **Alexandre Bauduin**

Brought to you by:

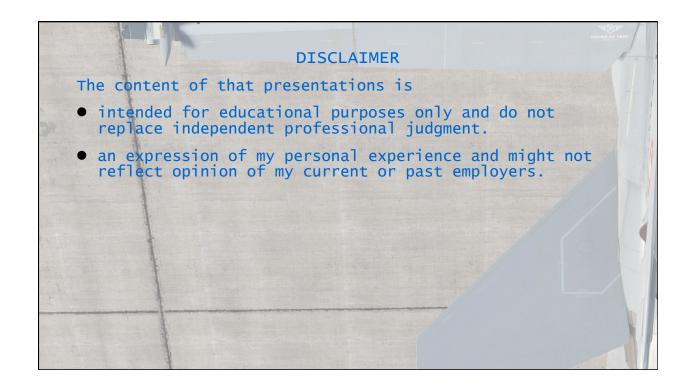


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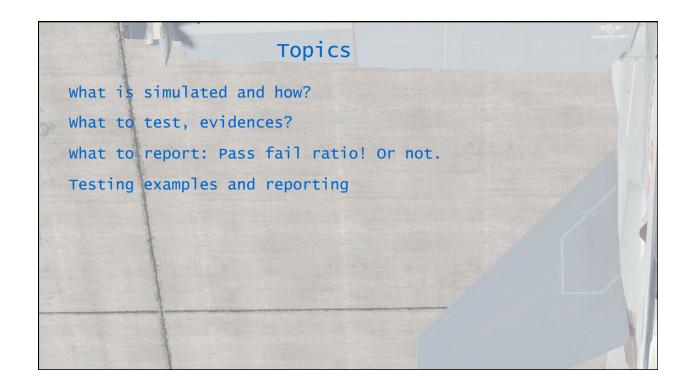
## **Alexandre Bauduin**

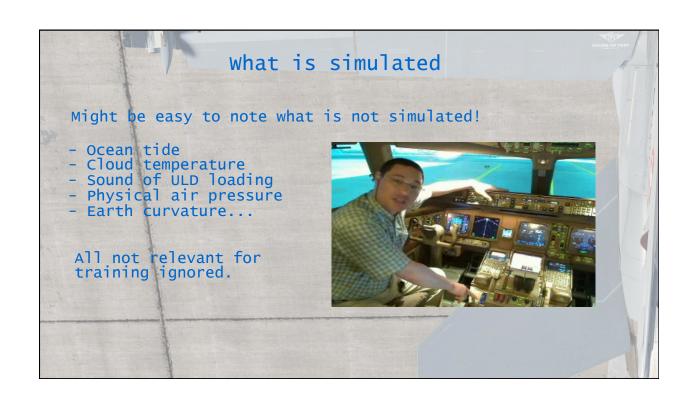
Alexandre Bauduin is a 51 year old world traveler. He worked in consulting firms gaining experience in several fields (medical, manufacturing, aerospace, pay TV, data warehouse-to name a few) in different countries (Switzerland, France, Spain, Canada, etc.) His career started in the space industry where he discovered his passion for aerospace, working on both military and civilian projects. He was sometimes steered away from aerospace but his passion pushed him to become an airline pilot, as a way to really understand how those instruments he programmed and integrated were operating in a cockpit. One of his last challenges was to organize flight simulator testing into a lean manufacturing environment. He works with milling machines, draftsmanship, accounting and finance, software development, electronic design and industrial robots, and it is always fun for him to use an oscilloscope, an ARINC bus analyzer, and step into assembly language or stall a Boeing 777!









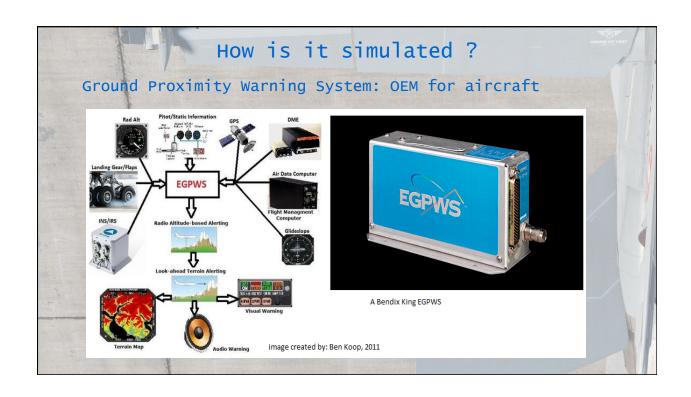


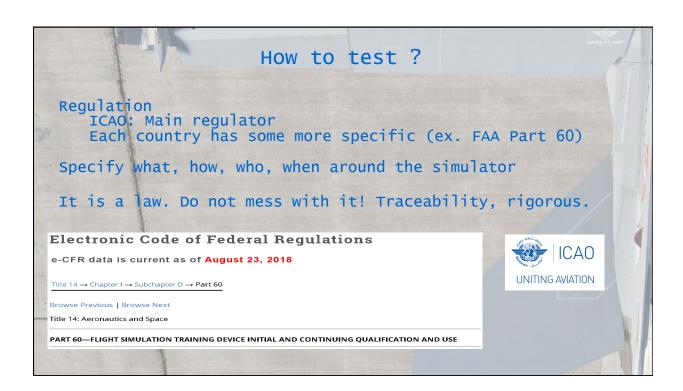


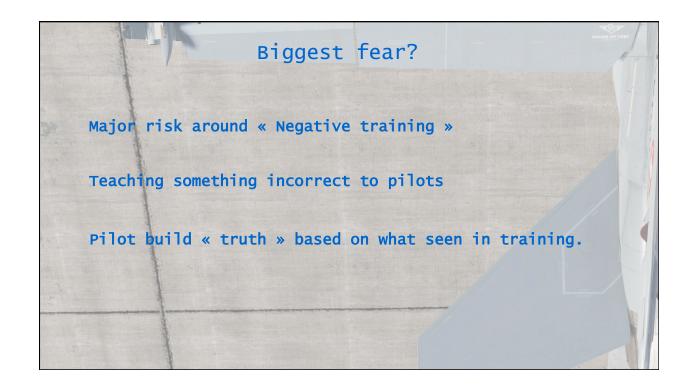
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How is it simulated ?

Module for each "system" (Fuel, electrics, LG..)

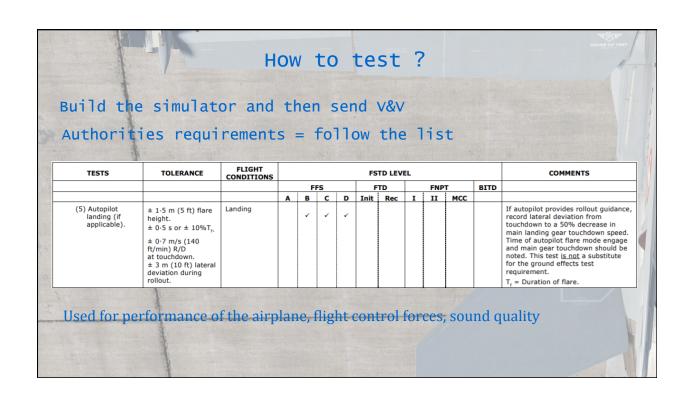
Constant TimeUp = 20;
Init();
Timing =0;
While (true) {
    Wait_For_Go();
    //Landing gear selector
    if (i32_LdgSel== UP) && (Timing < TimeUp) {
        Retract_a_bit_LandingGear();
        Timing++
     }
     rest of the code...
}</pre>
```

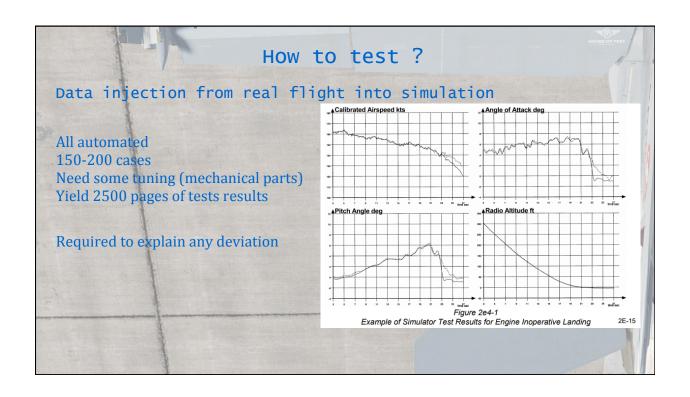


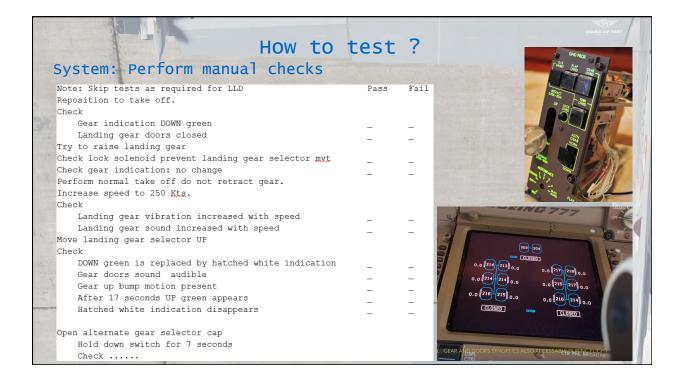


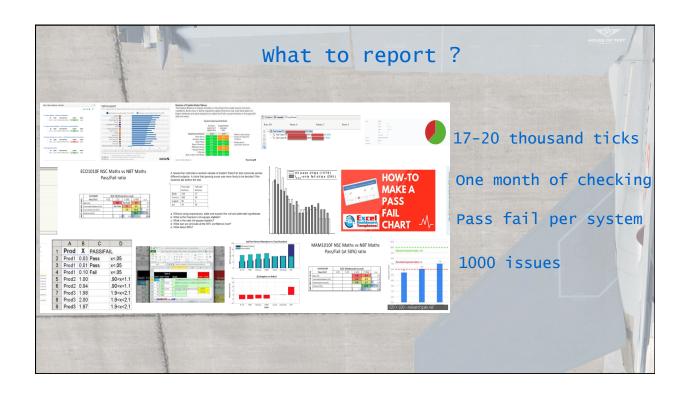




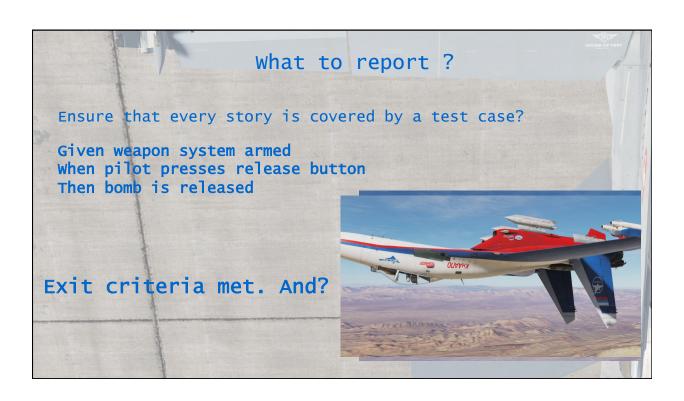


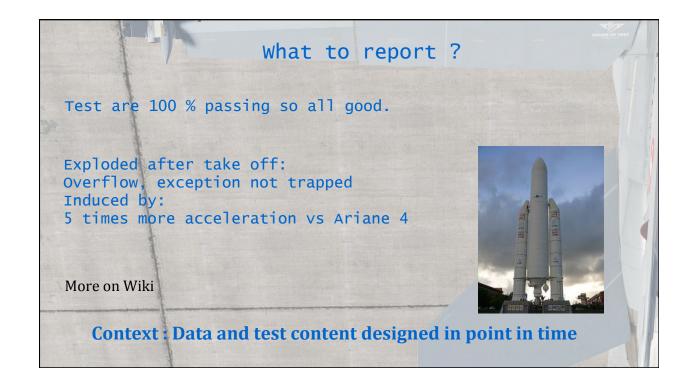












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What to report ?

Testing boundaries in aviation is important:

Float outsideAirTemperature (float staticTemperature...)
{
    Some magic calculations;
    Return result;
}

OAT in aviation : -73c / 55c
    -100 / + 100 to be safe.
```

