Jan Comans

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Straightforward problem solver with a strong engineering and software development foundation. Fast learner and effective communicator. Able to provide high quality technical solutions while keeping track of business requirements.

Skills

- Fluent in C++11, C++98, Python, Lua
- Boost, STL, Qt, GTK+, FLTK, OpenGL, CMake
- Familiar with Java, Objective-C, Visual Basic, Scheme/Lisp, PHP, Shell scripting
- Preference for Git, experience with SVN and CVS
- GNU/Linux enthusiast
- LaTeX, Matlab
- Agile Methodologies
- Native Dutch, fluent English, basic French

Experience

Software Engineer (Level 2), Flight Performance Dec 2014 to present
Lockheed Martin Commercial Flight Training *Sassenheim*

Development of a new simulator validation tool that increased developer productivity by reducing test setup times from minutes to seconds.

- Boeing 787 flight model development and validation
- Boeing 787 high performance flight model trim module development
- Design and development of a custom validation tool for running simulator validation tests (QTG's).
  - High performance C++ backend for real-time test performance
  - Flexible embedded lua script engine for easy test scripting
- Latency validation on the AeroMexico Boeing 787 Full Flight Simulator
- On site work at the AeroMexico training facility on the QTG package in preparation of the formal DGAC qualification of the Boeing 787 Full Flight Simulator
- Major stability improvements on the communication layer for the Boeing 787 Integrated Panel Trainer

PhD Candidate 2009 to present
Department of Control and Simulation, TU Delft *Delft*

Research : Risk Perception in Ecological Information Systems through Intentional Constraints

- CAMMI (Artemis JU) Design of Cognitive Adaptive Man Machine Interfaces. Technical and administrative lead for the TU Delft contribution to the EFIS domain (3yr)
- Software and hardware support for the on board Flight Test Information System of the Cessna Citation test aircraft operated by the TU Delft (www.cs.tudelft.nl)
- Adapting FlightGear (www.flightgear.org) to run on a multi channel image generator for the Simona Research Simulator (www.simona.tudelft.nl) and the HMI Lab
- 6x Supervision of MSc. thesis (9mo) and of two final BSc. project groups (10wk)
- Tutor for the Control Theory practical and the Instrumentation and Signals practical
- Organization and coordination of the teaching assistants for the Flight Test practical
- Cabin operator/experiment coordinator for the Flight Test practical test flights

Software Engineer (Internship) Jul 2007 to Dec 2007
Boeing Research and Technologies Europe *Madrid, Spain*

Development of a high fidelity aviation systems simulator with the Advanced Trajectory Technologies group

Education

Master of Science (MSc) in Aerospace Engineering 2006 to 2009
Department of Control and Simulation, TU Delft
Master Thesis: Visual Delay Reduction in the Simona Research Simulator

Bachelor of Science (BSc) in Aerospace Engineering 2002 to 2006
Faculty of Aerospace Engineering, TU Delft

Final Project: Design of autonomous underwater vehicles using swarm technology

Hobbies

- Playing the saxophone
- Cooking
- Flying (Private pilot license, single engine piston)