

Marius Peter
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- Technical breadth in Technology & Management
- Electives: biomechanics, RFID and its application in manufacturing & supply chain
- PID Controller Design Fluid Mechanics Thermodynamics Aircraft Propulsion Thermodynamics

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- Built a 1:1 scale test rig for a complete water & waste system
- Created the initial proposal for a novel water system for a supersonic business jet
- Supported the Predictive Maintenance program for highly stressed rotary equipment (vacuum generators, air compressors...)

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- Created & presented a proof of concept for Airbus' *digital continuity* strategy using principles of Model-Based Systems Engineering
- Secured initial funding from Airbus for a bespoke software solution for *Shop Floor Control* and *Final Assembly Line* management

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- Learned HDL, LabVIEW and core concepts of hardware programming and DAQ
- Upgraded FPGA data acquisition systems from CLIs to GUIs (embedded ARM Linux)

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- Competition: design, manufacturing, testing & flight analysis of a model rocket
- Lead the manufacturing of our rocket: mill & lathe, 3D printing, fiberglass, plywood...
- First place for all criteria: maximum apogee, intact payload, trajectory prediction...

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- Broadened the scope of a program written for UCLA's aircraft design course
- Initial goal: design FAR 23 compliant NACA airfoils and optimize for weight using a Monte Carlo simulation, then a genetic algorithm
- Ultimate goal: develop an aircraft creation suite designed for non-technical persons

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- 7 years experience in geometry modeling, texturing, rendering visual FX

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- Microsoft Suite & LaTeX
- Verilog, MATLAB, Python, Lisp
- SOLIDWORKS, Blender 3D

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- UML, SysML, BPMN
- AnyLogic, SIMPROCESS
- NI LabVIEW, other DAQ

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- Native: French, English
- Proficient: German
- Intermediate: Chinese