Marius Peter

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Education

2014–2019 **B.S. in Aerospace Engineering** — University of California, Los Angeles

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

Work

Nov. 2019–Pres. **Systems Test Engineer** — Safran Passenger Solutions, Los Angeles

- Created the initial proposal for a novel water system on a supersonic business jet
- Autonomously designed and constructed a test rig for a water & waste system
- Supported the Predictive Maintenance program for highly stressed rotary equipment (vacuum generators...)

Sep.–Dec. 2017 **Assistant Business Analyst** — Cosmo Tech, Lyon

- Cosmo Tech publishes a Decision Support Software for complex systems (road networks, energy grids)
- 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

June–July 2015 **Assistant Electronics Engineer** — CERN, Geneva

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

Projects

Apr.–June 2019 **UCLA Design-Build-Launch** — Senior Capstone

- Competition: design, manufacturing, testing & analysis of a model rocket
- Lead the manufacturing of our rocket: mill & lathe, 3D printing, fiberglass, plywood...
- We won first place on all criteria: max. apogee, intact payload, trajectory prediction...

Apr. 2019–Pres. **Aircraft Studio** — Python `www.github.com/Blendoit/Aircraft_Studio`

- 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

2012–Pres. **3D Design/CAD** — Solidworks/Blender `www.deviantart.com/faquinou`

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

Skills

Computer Science

- Microsoft Suite & LaTeX
- Languages: Verilog, MATLAB, Python, Tcl/Tk
- CAD: SOLIDWORKS, Blender

Systems & Industrial

- UML, SysML, BPMN
- AnyLogic, SIMPROCESS, MEGA HOPEX
- LabVIEW

Languages

- Native: French, English
- Proficient: German
- Intermediate: Chinese (Mandarin)