

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 **Design-Build-Launch** — UCLA 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)