

# Marius Peter

Los Angeles, CA

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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 Cabins, Los Angeles

- 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...)

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

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

Apr. 2019–Pres. **Aircraft Studio** — Python [www.github.com/Blendoit/Aircraft\\_Studio](https://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](https://www.deviantart.com/faquinou)

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

## Skills

### Computer Science

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

### Systems & Industrial

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

### Languages

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