

MARIUS PETER

Full Curriculum Vitae

Sales ★ Engineering ★ Design

Los Angeles, CA
mpeter@ucla.edu / +1 818 284 3757

Education

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

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

Work

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

- Created the initial proposal for a novel water system onboard 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...)

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

- 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
- Applied principles of Model-Based Systems Engineering
- Showcased Cosmo's simulation capabilities for *Shop Floor Control* and *Final Assembly Line*
- Secured initial funding for a bespoke software solution developed for Airbus

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

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

Engineering Intern — Alcatel Submarine Networks, Paris **Apr.–May 2012**

- Learned the internal workings of an international optical fiber deployment company
- Assisted the Product Line Manager in evaluating ASN's current offering vs European competitors

Projects

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

- Model rocket design, manufacturing, testing & analysis
- Lead the manufacturing of my team's rocket: mill & lathe, 3D printing, fiberglass, plywood...
- We won first place on all criteria: maximum apogee, intact payload, trajectory prediction...

Aircraft Studio — https://www.github.com/Blendoit/Aircraft_Studio **Apr. 2019–Pres.**

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

Solidworks/Blender — <https://www.deviantart.com/faquinou> **2012–Pres.**

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

Certifications & Licenses

Linux Foundation Certified Engineer **Dec. 2020**

LEED Green Associate **Mar. 2019**

Skills

Computer Science

- Microsoft Suite & \LaTeX
- Verilog, MATLAB, Python, Tcl/Tk
- SOLIDWORKS, Blender

Systems & Industrial

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

Languages

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