MARIUS PETER

Sales ⋆ Engineering ⋆ Design

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Education

B.S. in Aerospace Engineering

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 Aerosystems, Los Angeles

- 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…)

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
- Showcased Cosmo's simulation capabilities for *Shop Floor Control* and *Final Assembly Line*
- Secured initial funding for a bespoke software solution developed for Airbus

June–July 2015 Assistant Electronics Engineer — CERN, Geneva

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

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

- 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

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

- 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…

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

- 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

2012–Pres. Solidworks/Blender — `https:www.deviantart.com/faquinou`

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

Certifications & Licenses

Dec. 2019 Linux Foundation Certified Engineer

- Advanced Linux administration and engineering

Mar. 2019 LEED Green Associate

- Sustainable building design, construction, and operations

Skills

Computer Science
Microsoft Suite & LaTeX
Verilog, MATLAB, Python, Tcl/Tk
CAD: SOLIDWORKS, Blender

Systems & Industrial
UML, SysML, BPMN
AnyLogic, SIMPROCESS, MEGA HOPEX

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