

Marius Peter

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1 Education

1.1 {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 •\ % Thermodynamics •~ % Thermodynamics •~

2 Work

2.1 {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...)

2.2 {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

2.3 {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)

3 Projects

3.1 {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, fiber-glass, plywood...
- We won first place on all criteria: max.\ apogee, intact payload, trajectory prediction...

3.2 {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

3.3 {2012–Pres.}{3D Design/CAD}{Solidworks/Blender www.deviantart.com/faquinou}

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

4 Skills

Computer Science

- Microsoft Suite & L^AT_EX
- 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)