Los Angeles, CA

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 Thermodynamics

Nov. 2019–Pres.

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

Created & presented a proof of concept for Airbus' strategy using principles of Model-Based Systems Engineering Secured initial funding from Airbus for a bespoke software solution for

June–July 2015

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

Apr.–June 2019

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: maximum 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.

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

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