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# Filip Livancic

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- **Github:** <https://github.com/Filpill>
- **Website:** <https://filpill.github.io/>

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## Education

City, University of London - Aeronautical Engineering (MEng)

Oct 2014 - Jul 2018

- **Overall grade: First-Class Honours 70.3%**
- **George Daniels Scholarship - Sept 2015**
- **Relevant Modules:** Mathematics and Computing, Systems Engineering, UAV Design

St Gregory's RC Science College

Sep 2007 – Jul 2014

- **A Level's:** Physics (A), Mathematics (B), Further Mathematics (B), Chemistry (C)
- **GCSE's:** 11 GCSE's (A\*-C) Including English and Math

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## Work Experience

easyJet - Safety Data Analyst

Nov 2021 - Present

- Designing series of end-to-end data processes to generate scheduled safety statistics for stakeholders using Python and SQL.
- Automating data analysis; running .py scripts through .bat files to improving efficiency by several orders of magnitude.
- Communicating with operational stakeholders and providing safety performance indicators to enable effective safety oversight.

TUI Airways - Engineering Safety Analyst

Aug 2018 - Sept 2021

- Building relationships with key stakeholders in the CAMO and Part 145 in support of the occurrence reporting system.
- Coordinating engineering investigations to generate root cause analysis and assure effective occurrence risk management.
- Leading discussions in the Engineering Safety Action Group, and presenting safety data to drive risk mitigation actions.
- Improved occurrence reporting process flows with increased clarity and in compliance with Part CAMO and SMS regulation.
- Standardised statistical analysis of safety data and KPI's using Python scripts. (**Libraries:** matplotlib, pandas, numpy)

Booker Gliding Club – Cadet (Volunteer)

Feb 2013 - Jul 2018

- Supported airfield operation, preparing airfield launch point with gliders/equipment and ensuring efficient ground movements.
- Identified aircraft defects through the performance of daily inspections to check for serviceability and logging defects.
- Enabled effective flying activity with glider launching, glider retrieval, and performance of the flight log administration.

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## Projects

Arduino Project - 3D Printed Bluetooth Car

Apr 2020 – Jun 2021

- Designed car with Solidworks, sliced STL's using Cura, printed parts on Ender 3 printer and further assembly by hand.
- Integrated PLA body structure and COTS parts: independent suspension, powertrain system, steering servo and wiring.
- Created Bluetooth serial communications system in Java and implemented GUI interface between PC and Arduino.

UAV Design Project - Payload Challenge - Project Engineer

Oct 2017 – Jul 2018

- Defined system requirements and aircraft sizing in addition to coordinating aero/structures analysis with detailed design.
- Optimised aircraft configuration at conceptual design stage using Monte Carlo style simulation to maximise mission score.
- Coordinated manufacture processes of UAV aircraft staged out into sub-systems and supplemented with building instructions.

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## Skills

Technical Skills

- **Software:** Arch/Artix Linux, AMOS, ANSYS, APDL, AutoCAD, Cura, Fluent, SolidWorks, Tableau, XFLR5
- **Documenting:** Microsoft Office (Word/Excel/Powerpoint/Visio), LaTeX, Vim
- **Programming:** Arduino, HTML, Hugo, MATLAB, Python, SQL, VBA
- **Manufacturing:** 3D Printing, Laser Cutting
- **Languages:** English(Fluent), Croatian(Native), French(Basic)
- **Miscellaneous:** UK Driving License, BGA Bronze Badge, HF Investigator