



# ISABELLA HELLIWELL

## Structural Aerospace Engineer

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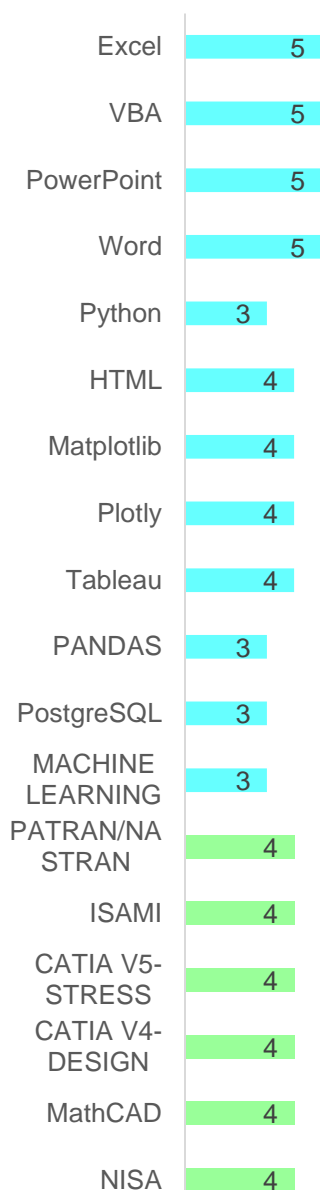
GitHub: <https://github.com/isabella-helliwell>

UCF Final Project: <https://happy-nation.herokuapp.com>

Portfolio link: <https://isabella-helliwell.github.io/portfolio/>

*My engineering experience from the aerospace industry, my data analytic tool knowledge from UCF, and my creativity gives me a unique skillset to successfully analyze complex data and visually transform numbers to tell a story.*

### TECHNICAL SKILLS



### EXPERIENCE

#### AEROSPACE STRUCTURAL ENGINEER · ASSYSTEM 2012 – 2018 · PRESTON, UK

Responsible for structural analysis of wing components and writing stress dossiers. Successful completion of Finite Element Analysis using PATRAN. Review, interpretation & validation of results. Presentation to clients, designers and project managers.

FEM tools such as ISAMI, PATRAN/NASTRAN, and CATIA V5 and hand calculations

Aircraft types: A330NEO, A35XWB, A321, A350

The stress analysis were mainly of metallic parts, with addition to some composite parts.

#### AEROSPACE STRUCTURAL ENGINEER · SOGETI HIGH TECH 2011 – 2012 · HAMBURG, GERMANY

Close collaboration with Airbus completing Finite Element Analysis (GFEM) of A320-PAX and A320-Sharklet components. Validation of stress certification reports with ASSACOS (Airbus in house tool).

#### STRESS ENGINEER · ASSYSTEM 2010 - 2011 · BREMEN, GERMANY

Working in the AIRBUS Military Aircraft A400M fuselage team  
Obtaining structural plots using ISSY (Integrated Structure Mechanical System)

Writing stress justification reports to verify static strength of parts



### EDUCATION

#### DATA ANALYTIC & VISUALIZATION BOOTCAMP UNIVERSITY OF CENTRAL FLORIDA · 2021

#### POST GRADUATE DIPLOMA AEROSPACE ENGINEERING · UNIVERSITY OF BATH, UK · 2004