



ISABELLA HELLIWELL

Structural Aerospace Engineer and Data Analyst

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LinkedIn: www.linkedin.com/in/isabella-helliwell

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

Excel	5
VBA	5
PowerPoint	5
Word	5
Python	3
HTML	4
Matplotlib	4
Plotly	4
Tableau	4
PANDAS	3
PostgreSQL	3
MACHINE LEARNING	3
PATRAN/NASTRAN	4
ISAMI	4
CATIA V5-STRESS	4
CATIA V4-DESIGN	4
MathCAD	4
NISA	4



EXPERIENCE

DATA ANALYTIC & VISUALIZATION BOOTCAMP · UCF Jun 2021 – Dec 2021 · ORLANDO, FL

Successfully graduated the Bootcamp with a 98% average. Final project delivered a published website utilizing machine learning, HTML, Python, & Tableau. Developed a skillset of leading data analytic tools including APIs, Python, SQL, JavaScript, VBA and HTML.

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.

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).



EDUCATION

DATA ANALYTIC & VISUALIZATION BOOTCAMP UNIVERSITY OF CENTRAL FLORIDA · 2021

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

BSC AERONAUTICAL ENGINEERING · UNIVERSITY OF MALARDALEN, SWEDEN · 2003