HARRY HOLDEN MEng (Hons)

SOFTWARE DEVELOPER

I am a junior software developer with a background in aerospace engineering, specialising in modelling & simulation. I am a keen problem solver, enthusiastic team member and eager to work on anything related to tech,
I love it!

Think I could help you out?
Let's work together.

TECH SPECIALISATIONS

Coding Languages:
HTML5, CSS3, JavaScript, Python, Matlab & Simulink
Front-end Libraries & Frameworks:
React & Redux, Thunk, Qt, Sass, Materialize, Bootstrap
Back-end Development:
Node.js (with Express), Firebase (authentication, Firestore, hosting, Cloud functions), MongoDB
Software Development:
Git, NPM, Yarn, Babel, SPAs, APIs, authentication & authorisation, unit testing (Jest & Enzyme), OOP

CAREER

Trainee Software Developer
_NOLOGY
SEPT 2020 TO PRESENT

- Rapid learning & application of new coding languages, frameworks & libraries within a 12 week course.
- Developed websites, games, single page applications and APIs using a range of tools across the full stack.
- Participated in a client project developing a responsive web application using agile working principles.

Landing Gear Installation Engineer
AIRBUS LTD. FILTON, BRISTOL
LANDING GEAR STRUCTURES
MAR – SEPT 2015

- Responsible for the kinematic & spatial modelling of new landing gear concepts, facilitating the conversion of mechanical designs into a dynamic model.
- Supported assessments on landing gear designs related to clearance, bonding, corrosion and abrasion for certification validation.

Modelling & Simulation Specialist
AIRBUS LTD. FILTON BRISTOL
INERTING AND FLUID PHYSICS GROUP, FUEL SYSTEMS
SEPT 2015 – MAY 2020

- Contributed to the development, improvement and testing of in-house tank and thermal modelling software, implementing the automation of multi-analysis tasks.
- Project lead for thermal modelling certification tasks related to A320neo ACJ & A321 ACF. This involved model software design, build, test (verification) and deployment. Coordinated the data acquisition aspects for the model validation flight test campaign.
- Focal point for all fuel system tank modelling spatial analyses. Developed a multi-path modelling technique to increase modelling efficiency based on the level of design maturity, from concept to in-service modifications.
- Fuel system requirements design lead for future projects – alternative fuel aircraft concept design. Aiding architecture design and definition for the fuel distribution system through agile working methods.
- Supported fuel system lecture series, providing teaching to new employees on the methods, tools and practices employed within the modelling group.

www.thediplodocus.co.uk

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linkedin.com/in/harry-holden-5b11a274

References available on request.

E D U C A T I O N

(2008-2012) University of Manchester
MENG (HONS) AEROSPACE ENGINEERING, UPPER SECOND CLASS (2:1)

- Masters dissertation project: UAV product design and development, project lead on structural engineering and CAD design.
- Bachelors dissertation in the field of Thermoacoustic cooling requiring capabilities in data collection, processing and analysis.
- Specialised in modelling & simulation, spacecraft systems, rocket propulsion, hypersonic flow dynamics and acoustics.

(2006-2008) Runshaw College, Leyland
A-LEVEL: MATHS (A), FURTHER MATHS (B), PHYSICS (A), ICT (A)

V O C A T I O N A L
Q U A L I F I C A T I O N S

Duke of Edinburgh Award
Bronze (2005), Silver (2007), Gold (2009)
PADI Open Water Scuba Diver
Open water diver (2001), advanced open water diver (2006)
ASA Level 1 Swim Teaching Certification
Full, clean UK driving licence

C A R E E R (C O N T I N U E D . . .)

Landing Gear Structures Engineer
AIRBUS LTD. FILTON, BRISTOL
DIRECT ENTRY GRADUATE SCHEME – LANDING GEAR
SEPT 2013 – MAR 2015

- The Airbus graduate scheme was an intensive 2 year programme based around 3-6 month placements in areas of impactful responsibilities helping to develop extensive team working experience, cultural and inter-personal awareness, along with a high degree of Airbus business and product knowledge. Highlights are listed below.
- Focal point for landing gear maintenance clearance tasks for the A320neo flight test campaign and the time critical first flight based in Toulouse, France.
- Lead on landing gear test failure resolution enabling the successful certification of the A350 aircraft.
- Primary lead on A380 major modification development, successfully implementing project initialisation for multiple airworthiness modifications.
- Resolved more than 20 in-service issues and aircraft on ground scenarios, some requiring a solution in less than 4 hours.
- Management and participation in Airbus STEM outreach programmes to motivate and educate young people in the benefits of pursuing STEM related careers.

Swimming Teacher & Coach (Voluntary)
ALL SEASONS LEISURE CENTRE, CHORLEY, LANCS.
2006-2008

- Taught and coached swimming to people of all ages and ability. Helped people overcome their fear of water and individually coached competition level adolescents.

I N T E R E S T S

- **Vegetable growing** - proud owner of an allotment since 2016. Developed a jungle of brambles to a working plot. Requires a high degree of dedication, persistence and above all else patience. Since its beginning has helped nurture a passion for growing food for others.
- **Electronics** - developed a passion for making Arduino based electronic devices, mainly to provide environmental data acquisition for my allotment. Hoping to build a better understanding of hardware and electrics.