HARRY HOLDEN
SOFTWARE DEVELOPER

MEng (Hons)

KEY SKILLS

Excellent problem solving ability - built over a 7 year career in engineering working on highly complex problems across multiple domains.

Exceptional Team Worker - extensive experience working in highly collaborative environments and multinational cross-functional teams.

Committed to professional development - keen and quick learner always looking to be the best I can be and mentoring others to achieve their best.

www.thediplodocus.co.uk

TECH SPECIALISATIONS

Coding Languages:
HTML5, CSS3, JavaScript, TypeScript, Python, C++, PHP, Matlab
Front-end Libraries & Frameworks:
Angular, Ionic, React & Redux, Qt, Sass, Materialize, Bootstrap
Back-end Development:
Node.js (Hapi, Express), Firebase (authentication, Firestore, hosting, Cloud functions), Redis, Django, MongoDB, MySQL
Software Development:
End-to-end testing (Protractor), unit testing (Jasmine, Jest & Enzyme), Git, NPM, Yarn, Babel, SPAs, APIs, authentication & authorisation, OOP, Visual Studio Code, Xampp

CAREER

Full Stack Software Developer
FARMHEDGE (WWW.FARMHEDGE.IE/)
MAR 2021 TO PRESENT

- Primary developer for front-end software for all products, developing PWAs and CRM tools utilising the Angular framework, Ionic and agile working practices.
- Played a central role in the design cycle for all products. Liaising with customers to understand their requirements, converting the requirements into UI/UX design templates and implementing finalised designs into the software.
- Lead on all testing activities. Creating and maintaining the entire test suite (e2e and unit testing) for all products.
- Developed back-end functionality using TDD principles (Hapi.js and MongoDB).
- Created and maintained the NPM library packages for shared code and logic.

Trainee Software Developer
_NOLOGY
SEPT 2020 TO DEC 2020

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

Full Stack Software Developer (Voluntary)
LYKKELI CIC
DEC 2020 TO PRESENT

- Lead developer for back-end software (Hapi.js/Redis) from architecture design, to implementation and testing.
- Developed component architecture for front-end technologies using React and implemented critical Redux functions.

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.

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github.com/hholden17

github.com/Diplodocus-the-Diplodocus-King

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

References available on request.

EDUCATION

(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)

VOCATIONAL QUALIFICATIONS

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

CAREER (CONTINUED...)

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.

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.

INTERESTS

- **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.