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[LinkedIn Profile](#)

[GitHub Profile](#)

[Personal Website](#)

Education

2022 - 2023
University of York, UK
MSc Fusion Energy
Distinction

2011 - 2014
University of Surrey, UK
BSc Physics with Nuclear Astrophysics
Upper second-class honours

Web Certificates:

- [Scientific Computing with Python, 2023](#)
- [Front End Development Libraries, 2023](#)
- [Responsive Web Design, 2020](#)
- [JavaScript Algorithms and Data Structures, 2020](#)

Skills

Programming Languages:

Fortran, Python, NativeScript, TypeScript/ JavaScript, HTML, Sass/ CSS, SQL, LaTeX, Git

HPC:

OpenMP, MPI

Front End Libraries:

Vue, React, Redux, Bootstrap, Tailwind

CAD Packages:

ICEM Surf, Catia V5, Blender

Personal:

- Confident public speaker, presenter, and educator.
- Excellent written and oral communication in English.
- I speak Portuguese at a beginner/ intermediate level.

Edward Simmons

Physicist, Developer, Design Engineer

About Me

Having recently completed a Masters degree in Fusion Energy at the University of York (and after taking a short break to get married!) I'm actively seeking employment in the Fusion Energy industry.

My undergraduate studies in Physics were completed nearly 10 years ago, and in the time since I have enjoyed a varied career that ranged from Software Development to Automotive Design. I'm a detail oriented person with a well rounded set of skills, and I'm a very quick learner.

I believe I would be a valuable addition to any team.

Work Experience



2020 - 2022
Atabix Solutions, NL
Front End Developer

I joined Atabix as a Junior Developer and was promoted within four months. My primary responsibility was the development and maintenance of mobile applications for iOS and Android, developed using a combination of NativeScript, TypeScript, Vue, and SQL.



2015 - 2020
Jaguar Land Rover, UK
Lead Surface Design Engineer

I was responsible for the delivery of A-Class surface geometry, collaborating closely with component owners, Engineers, Suppliers, and Designers. Key achievements and responsibilities:

- Developed the concept for, and filed a patent on, the [Smart Floor](#) feature. First seen on both the 22MY Range Rover and Range Rover Sport, it features prominently in [JLR's marketing](#).
- I managed a small team (~5) with various levels of experience.
- Supervised delegation of work to colleagues based in China.
- Promoted twice after starting on the Graduate scheme.
- Led a 'Design Graduate Forum' that has demonstrably improved the retention rate of Graduate hires.
- Delivered presentations to audiences of 700+ colleagues.



Awards

Janet & Mark Preston Prize for Best Physics Final Year Project (2014):
Simulations of Heavy-ion Fusion using the TDHF Code 'Sky3D'

Work Experience...

2014 - 2015

Waitrose & Partners

Partner

I was on the late/ night shift, and had the responsibility of closing the supermarket each night (along with two other colleagues). Whilst there I developed my interpersonal skills, as well as small-scale delegation, resource planning, customer service, and team working.

Waitrose & Partners encourages performance through shared ownership of the company, and I was proud to work there despite it being a part-time stepping-stone in my career.

2014

University of Surrey Department of Physics

Laboratory Demonstrator

I was recruited by one of the Professors in the Department of Physics to be a Laboratory Demonstrator for a series of University "open days", where prospective students had to be entertained (and, hopefully, educated) whilst waiting for their interview. I had been identified as a confident, enthusiastic, and approachable student - all necessary skills for the role.

The core responsibility of the role was demonstrating and explaining practical Physics experiments, communicating clearly and effectively to a group of around 50 prospective students. It was my job to educate, entertain, and relax them as they waited for their interview.

2012 - 2013

Austin Reed

Sales Assistant

A part-time job during my second year at University; I gained valuable experience in customer service, team working, and the somewhat niche skill of being able to fully measure and fit a suit. I also gained valuable experience in practicing my telephone manner - I was required to call both customers and other store branches on a regular basis.

The most important thing I learned at Austin Reed is that everyone should be required to work in retail/ the service industry at least once in their lives.

2010 - 2011

The Warwickshire Golf and Country Club

Lifeguard

My first job as a Lifeguard was a highly rewarding role that came with a great deal of responsibility. Aside from the making-sure-people-don't-drown aspect, I was also required to test, monitor, and correct the chemical balance of the pools, as well as cleaning and other small administrative tasks.

I took my job very seriously, and attended fortnightly training sessions to maintain my first-aid knowledge.

Skills...

Software

- Highly proficient with Mac, Windows, and Linux OS.
- I was the Office 365 Digital Champion for the Surfacing department at Jaguar Land Rover.
- Skilled in Adobe Photoshop, InDesign, and Lightroom.

Hobbies

Musical Theatre

- I've been in several musicals, in various roles, playing the lead in both Oklahoma! and Avenue Q.
- I met my wife in a musical theatre workshop, whilst living in Amsterdam.

Film Production/ Editing

- I've been filming one second every day for nearly 10 years!
- Highly proficient with iMovie and Final Cut Pro as a result.

Music

- I've been in a band since I was 15 years old.
- I play piano, guitar, bass, trombone, and I sing.
- I've recorded several covers, and as a result I'm skilled with software such as Logic Pro and GarageBand.
- I sang in a barbershop quartet whilst at university.
- I was a member of a community choir in the UK for 5 years.

Sports

- Running
- Badminton
- Table Tennis/ Ping Pong
- Trampolining
- Swimming

I'm also a keen photographer!